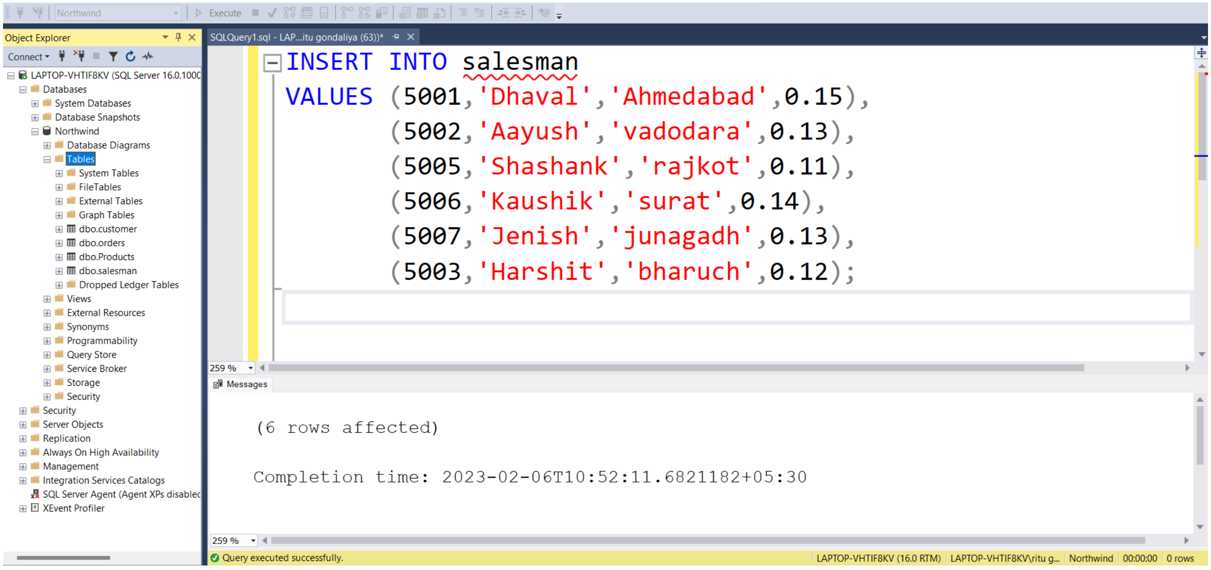
Assignment 2

1.CREATE TABLE salesman (salesman_id INT PRIMARY KEY NOT NULL,
name VARCHAR(30),
city VARCHAR(30),
commission FLOAT)

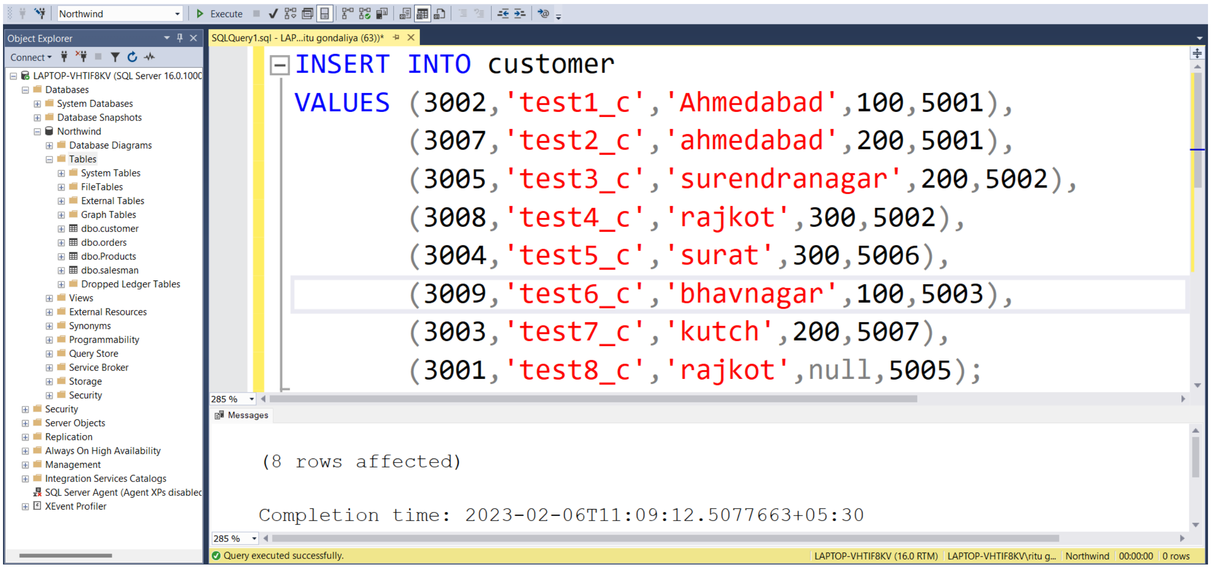


```
INSERT INTO salesman
VALUES (5001,'Dhaval','Ahmedabad',0.15),
       (5002,'Aayush','vadodara',0.13),
       (5005,'Shashank','rajkot',0.11),
       (5006,'Kaushik','surat',0.14),
       (5007,'Jenish','junagadh',0.13),
       (5003,'Harshit','bharuch',0.12);
```

```
(6 rows affected)

Completion time: 2023-02-06T10:52:11.6821182+05:30
```

2.CREATE TABLE customer (customer_id INT PRIMARY KEY NOT NULL,
cust_name VARCHAR(30),
city VARCHAR(30),
grade INT, salesman_id INT,
FOREIGN KEY (salesman_id) REFERENCES salesman(salesman_id))

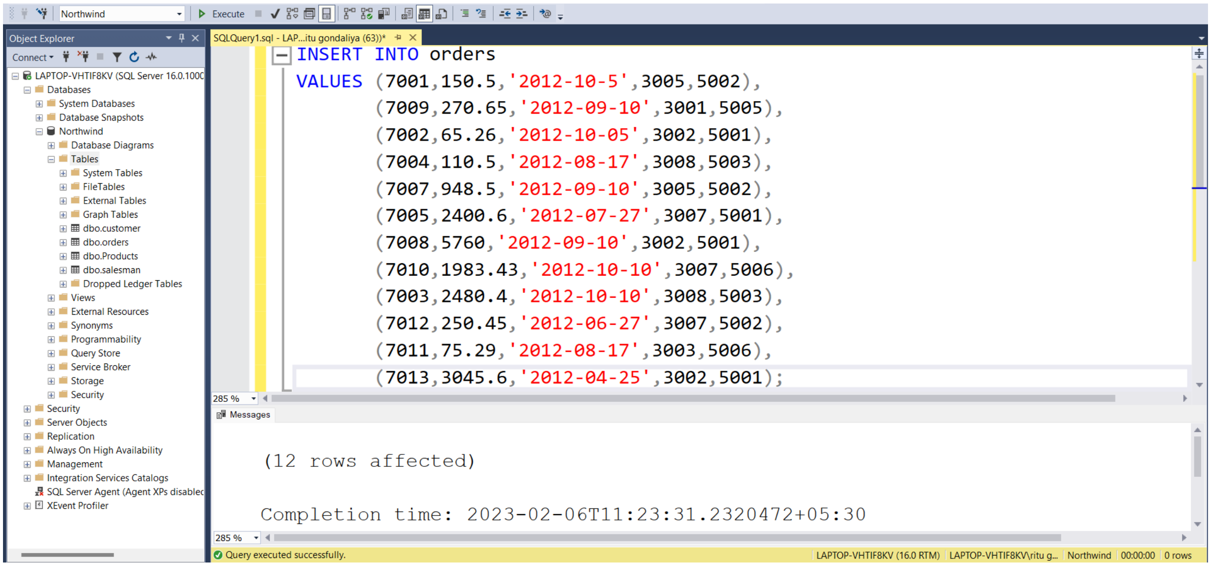


```
INSERT INTO customer
VALUES (3002,'test1_c','Ahmedabad',100,5001),
       (3007,'test2_c','ahmedabad',200,5001),
       (3005,'test3_c','surendranagar',200,5002),
       (3008,'test4_c','rajkot',300,5002),
       (3004,'test5_c','surat',300,5006),
       (3009,'test6_c','bhavnagar',100,5003),
       (3003,'test7_c','kutch',200,5007),
       (3001,'test8_c','rajkot',null,5005);
```

```
(8 rows affected)

Completion time: 2023-02-06T11:09:12.5077663+05:30
```

```
3. CREATE TABLE orders( ord_no INT PRIMARY KEY NOT NULL,
                                          purch_amt DECIMAL(18,2),
                                          ord_date DATE,
               customer_id INT FOREIGN KEY REFERENCES
                                          customer(customer_id),
               salesman_id INT FOREIGN KEY REFERENCES
                                          salesman(salesman_id));
```



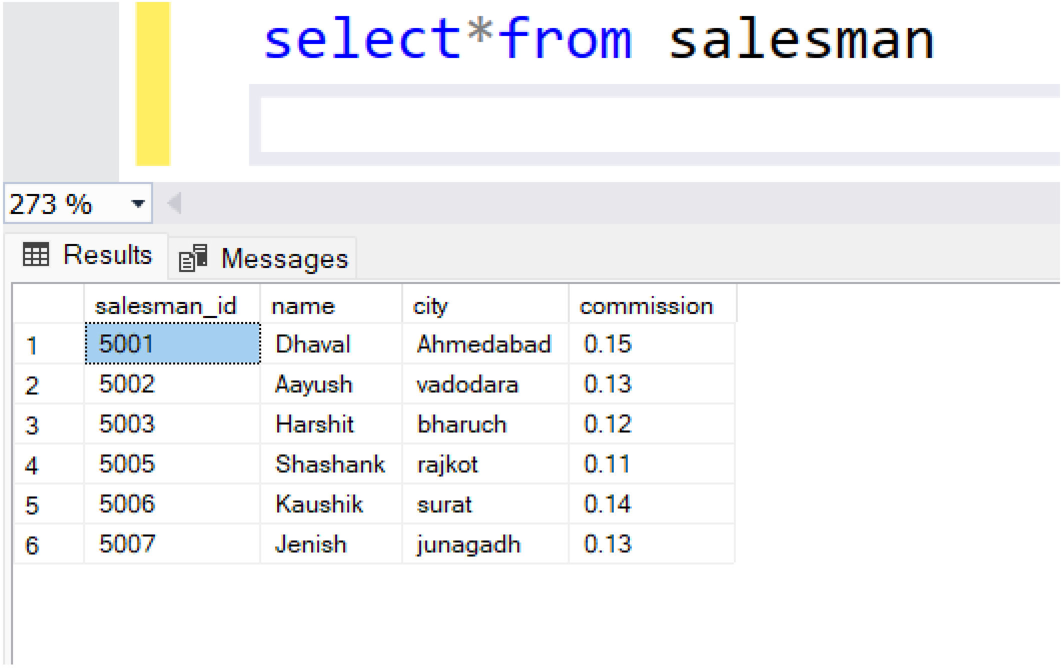
```
INSERT INTO orders
VALUES (7001,150.5,'2012-10-5',3005,5002),
       (7009,270.65,'2012-09-10',3001,5005),
       (7002,65.26,'2012-10-05',3002,5001),
       (7004,110.5,'2012-08-17',3008,5003),
       (7007,948.5,'2012-09-10',3005,5002),
       (7005,2400.6,'2012-07-27',3007,5001),
       (7008,5760,'2012-09-10',3002,5001),
       (7010,1983.43,'2012-10-10',3007,5006),
       (7003,2480.4,'2012-10-10',3008,5003),
       (7012,250.45,'2012-06-27',3007,5002),
       (7011,75.29,'2012-08-17',3003,5006),
       (7013,3045.6,'2012-04-25',3002,5001);
```

```
(12 rows affected)

Completion time: 2023-02-06T11:23:31.2320472+05:30
```

Query executed successfully. | LAPTOP-VHTIF8KV (16.0 RTM) | LAPTOP-VHTIF8KV\ritu g... | Northwind | 00:00:00 | 0 rows

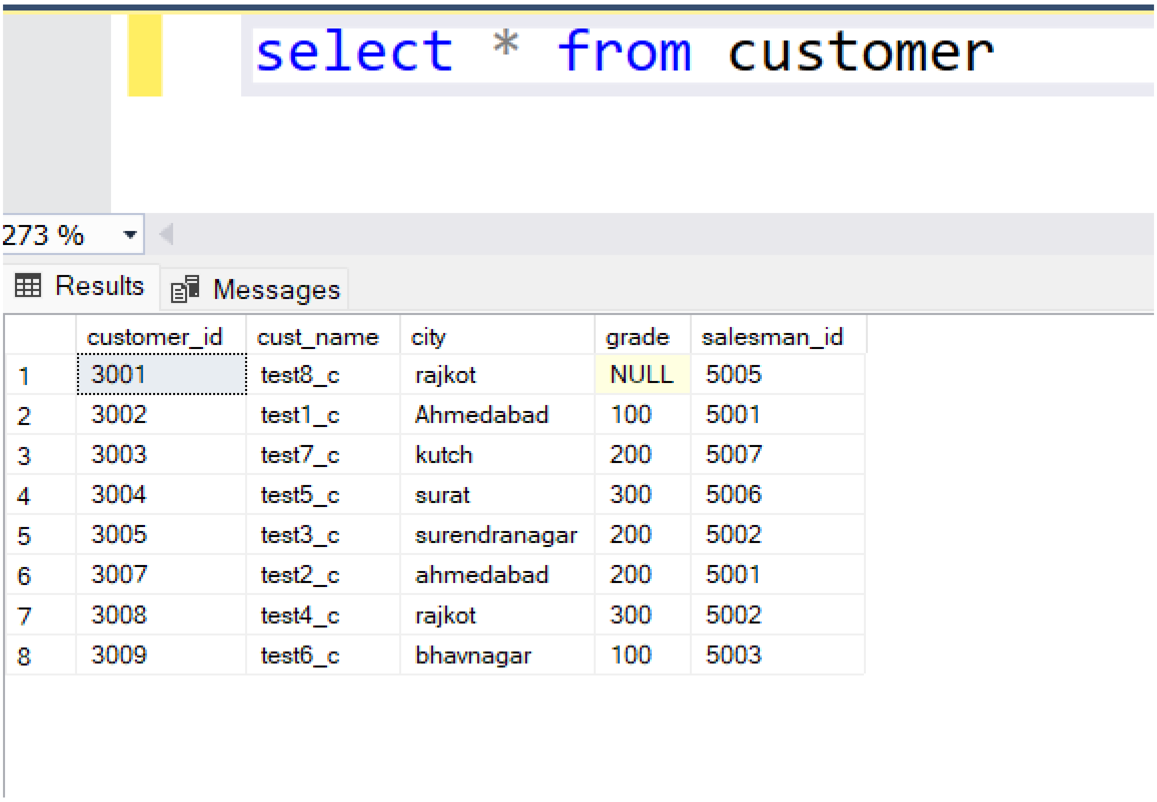
```
INSERT INTO salesman
VALUES (5001,'Dhaval','Ahmedabad',0.15),
      (5002,'Aayush','vadodara',0.13),
            (5005,'Shashank','rajkot',0.11),
            (5006,'Kaushik','surat',0.14),
            (5007,'Jenish','junagadh',0.13),
      (5003,'Harshit','bharuch',0.12);
```



```
select*from salesman
```

	salesman_id	name	city	commission
1	5001	Dhaval	Ahmedabad	0.15
2	5002	Aayush	vadodara	0.13
3	5003	Harshit	bharuch	0.12
4	5005	Shashank	rajkot	0.11
5	5006	Kaushik	surat	0.14
6	5007	Jenish	junagadh	0.13

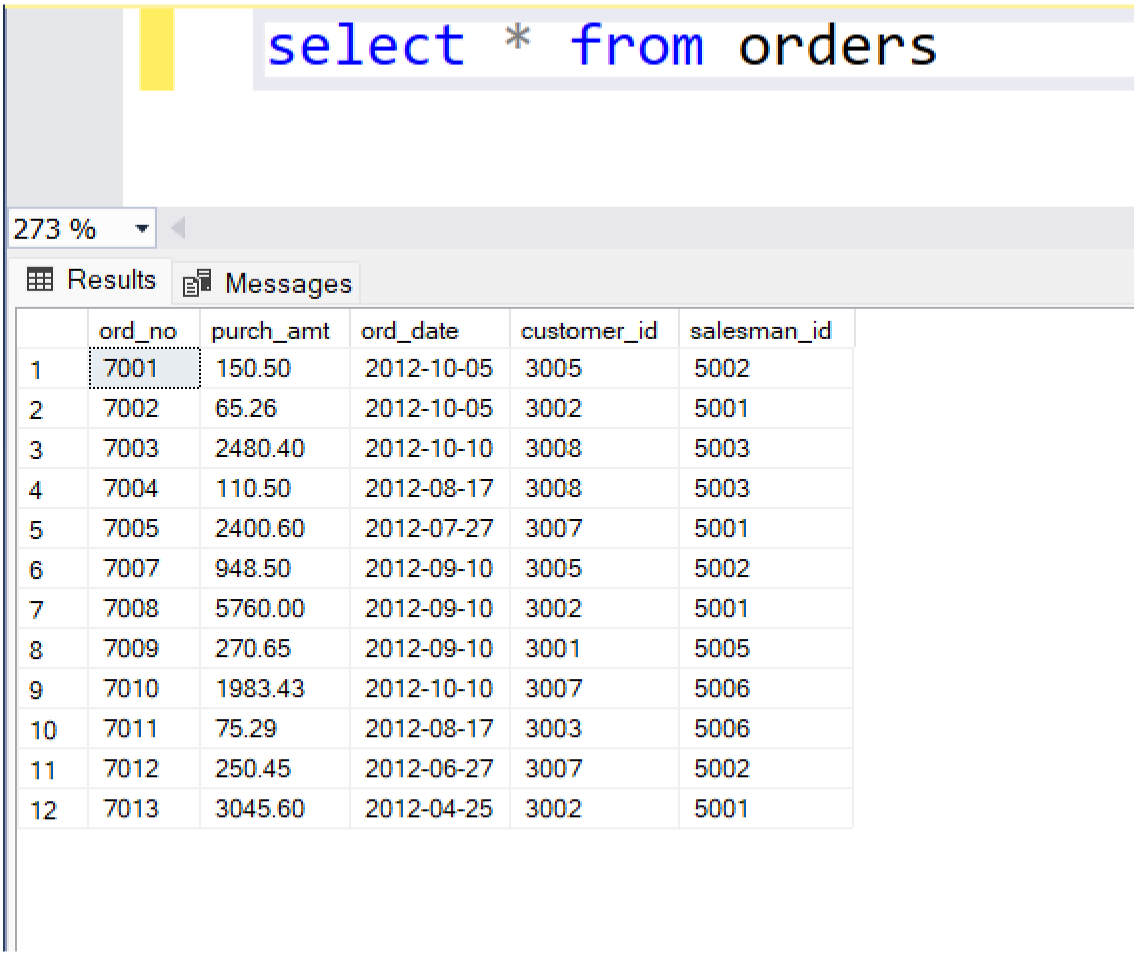
```
insert into customer  values(3002,'test1_c','ahmedabad',100,5001),
(3007,'test2_c','ahmedabad',200,5001),
(3005,'test3_c','surendranagar',200,5002),
(3008,'test4_C','rajkot',300,5002),
(3004,'test5_c','surat',300,5006),
(3009,'test6_c','bhavnagar',100,5003),
(3003,'test7_c','kutch',200,5004),
(3001,'test8_C','rajkot',null,5005);
```



```
select * from customer
```

	customer_id	cust_name	city	grade	salesman_id
1	3001	test8_c	rajkot	NULL	5005
2	3002	test1_c	Ahmedabad	100	5001
3	3003	test7_c	kutch	200	5007
4	3004	test5_c	surat	300	5006
5	3005	test3_c	surendranagar	200	5002
6	3007	test2_c	ahmedabad	200	5001
7	3008	test4_c	rajkot	300	5002
8	3009	test6_c	bhavnagar	100	5003

```
INSERT INTO orders
VALUES (7001,150.5,'2012-10-5',3005,5002),
       (7009,270.65,'2012-09-10',3001,5005),
       (7002,65.26,'2012-10-05',3002,5001),
       (7004,110.5,'2012-08-17',3008,5003),
       (7007,948.5,'2012-09-10',3005,5002),
       (7005,2400.6,'2012-07-27',3007,5001),
       (7008,5760,'2012-09-10',3002,5001),
       (7010,1983.43,'2012-10-10',3007,5006),
       (7003,2480.4,'2012-10-10',3008,5003),
       (7012,250.45,'2012-06-27',3007,5002),
       (7011,75.29,'2012-08-17',3003,5006),
       (7013,3045.6,'2012-04-25',3002,5001);
```



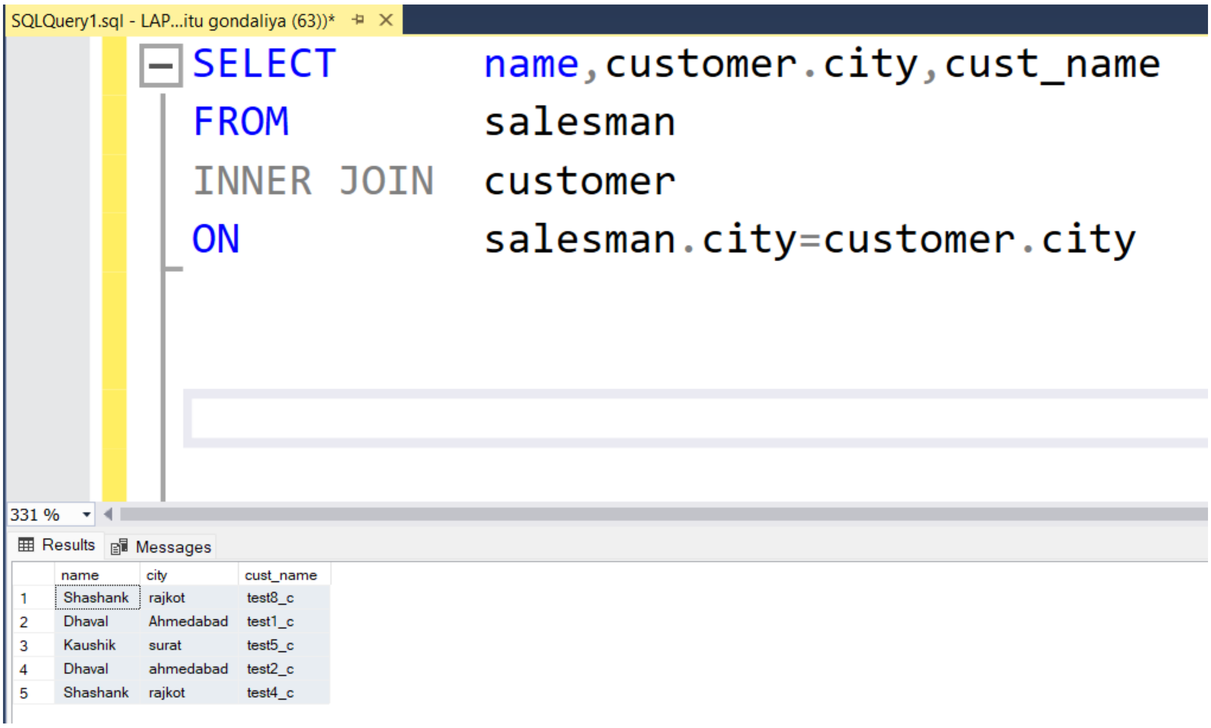
```
select * from orders
```

	ord_no	purch_amt	ord_date	customer_id	salesman_id
1	7001	150.50	2012-10-05	3005	5002
2	7002	65.26	2012-10-05	3002	5001
3	7003	2480.40	2012-10-10	3008	5003
4	7004	110.50	2012-08-17	3008	5003
5	7005	2400.60	2012-07-27	3007	5001
6	7007	948.50	2012-09-10	3005	5002
7	7008	5760.00	2012-09-10	3002	5001
8	7009	270.65	2012-09-10	3001	5005
9	7010	1983.43	2012-10-10	3007	5006
10	7011	75.29	2012-08-17	3003	5006
11	7012	250.45	2012-06-27	3007	5002
12	7013	3045.60	2012-04-25	3002	5001

Query 1 :

write a SQL query to find the salesperson and customer who reside in the same city. Return Salesman, cust_name and city

```
SELECT       name,customer.city,cust_name
FROM         salesman
INNER JOIN  customer
ON           salesman.city=customer.city
```



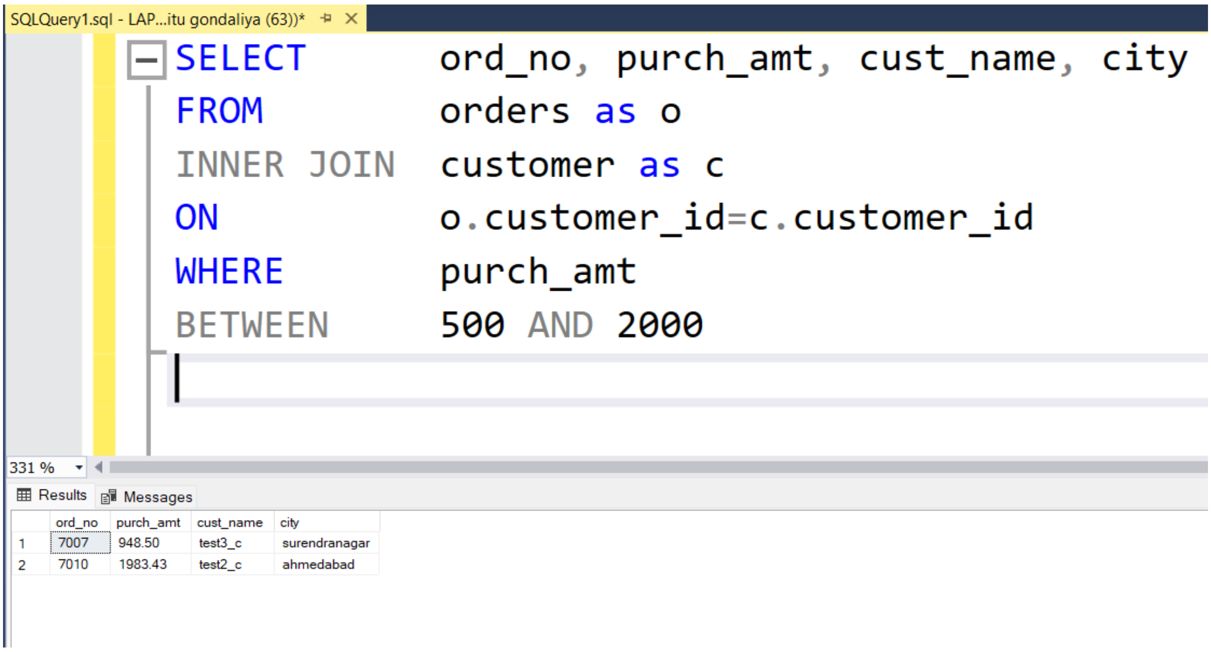
```
SELECT      name,customer.city,cust_name
FROM        salesman
INNER JOIN  customer
ON          salesman.city=customer.city
```

	name	city	cust_name
1	Shashank	rajkot	test8_c
2	Dhaval	Ahmedabad	test1_c
3	Kaushik	surat	test5_c
4	Dhaval	ahmedabad	test2_c
5	Shashank	rajkot	test4_c

Query 2:

write a SQL query to find those orders where the order amount exists between 500 and 2000. Return ord_no, purch_amt, cust_name, city

```
SELECT      ord_no, purch_amt, cust_name, city
FROM        orders as o
INNER JOIN  customer as c
ON          o.customer_id=c.customer_id
WHERE       purch_amt
BETWEEN     500 AND 2000
```



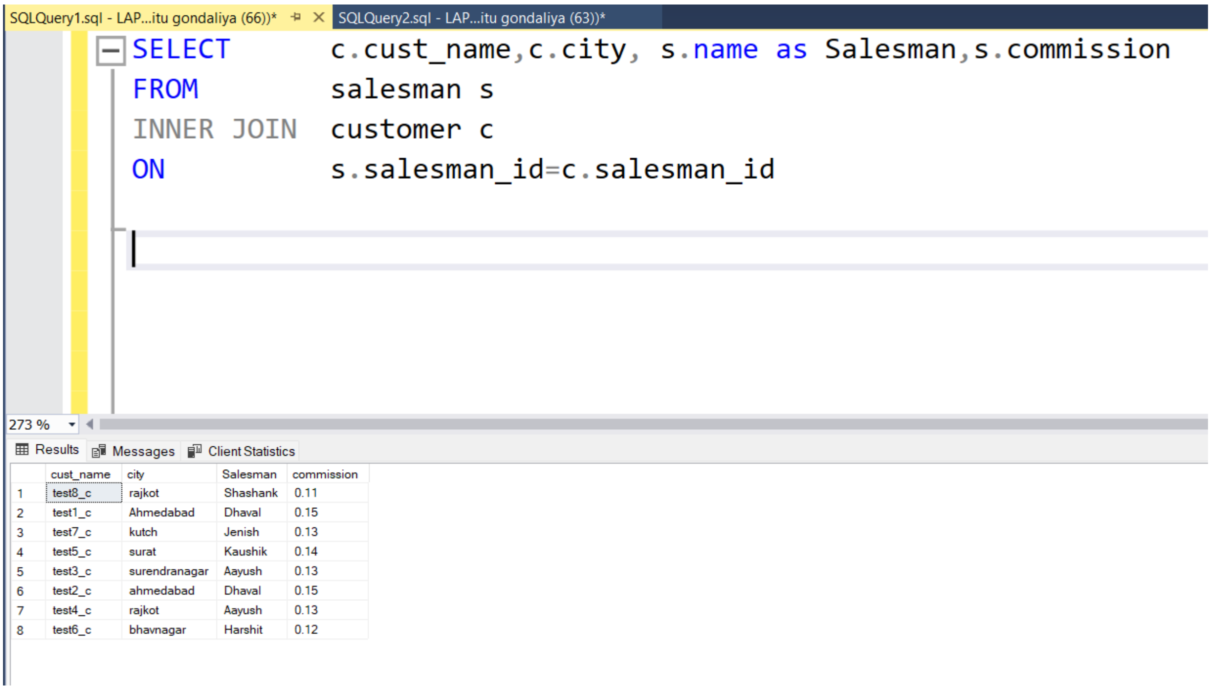
```
SELECT        ord_no, purch_amt, cust_name, city
FROM          orders as o
INNER JOIN    customer as c
ON            o.customer_id=c.customer_id
WHERE         purch_amt
BETWEEN       500 AND 2000
```

	ord_no	purch_amt	cust_name	city
1	7007	948.50	test3_c	surendranagar
2	7010	1983.43	test2_c	ahmedabad

Query 3:

write a SQL query to find the salesperson(s) and the customer(s) he represents. Return Customer Name, city, Salesman, commission

```
SELECT      c.cust_name,c.city, s.name as Salesman,s.commission
FROM        salesman s
INNER JOIN  customer c
ON          s.salesman_id=c.salesman_id
```



SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
273 %
Results
Messages
Client Statistics

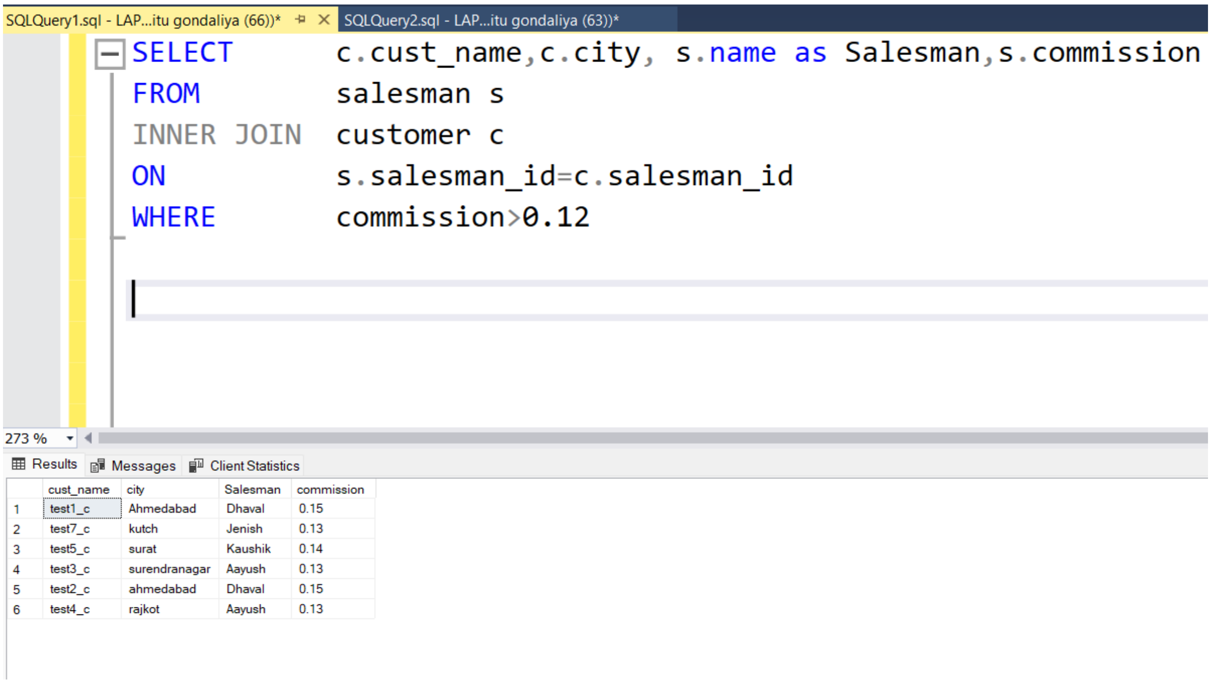
```
SELECT        c.cust_name,c.city, s.name as Salesman,s.commission
FROM          salesman s
INNER JOIN    customer c
ON            s.salesman_id=c.salesman_id
```

	cust_name	city	Salesman	commission
1	test8_c	rajkot	Shashank	0.11
2	test1_c	Ahmedabad	Dhaval	0.15
3	test7_c	kutch	Jenish	0.13
4	test5_c	surat	Kaushik	0.14
5	test3_c	surendranagar	Aayush	0.13
6	test2_c	ahmedabad	Dhaval	0.15
7	test4_c	rajkot	Aayush	0.13
8	test6_c	bhavnagar	Harshit	0.12

Query 4 :

write a SQL query to find salespeople who received commissions of more than 12 percent from the company. Return Customer Name, customer city, Salesman, commission

```
SELECT      c.cust_name,c.city, s.name as Salesman,s.commission
FROM        salesman s
INNER JOIN  customer c
ON          s.salesman_id=c.salesman_id
WHERE       commission>0.12
```



SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
273 %
Results
Messages
Client Statistics

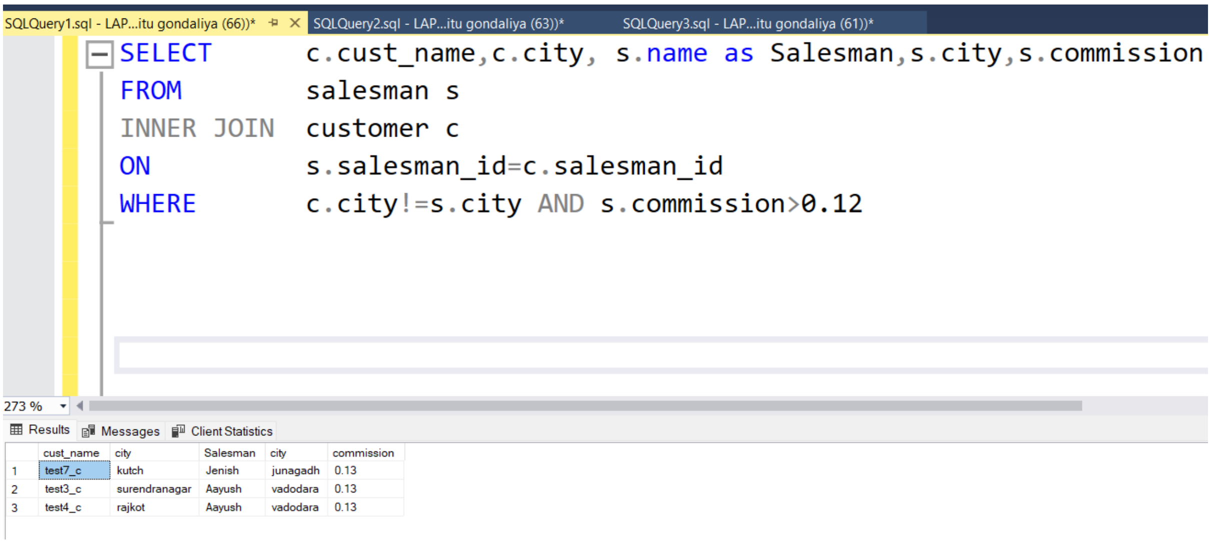
```
SELECT      c.cust_name,c.city, s.name as Salesman,s.commission
FROM        salesman s
INNER JOIN  customer c
ON          s.salesman_id=c.salesman_id
WHERE       commission>0.12
```

	cust_name	city	Salesman	commission
1	test1_c	Ahmedabad	Dhaval	0.15
2	test7_c	kutch	Jenish	0.13
3	test5_c	surat	Kaushik	0.14
4	test3_c	surendranagar	Aayush	0.13
5	test2_c	ahmedabad	Dhaval	0.15
6	test4_c	rajkot	Aayush	0.13

Query 5:

write a SQL query to locate those salespeople who do not live in the same city where their customers live and have received a commission of more than 12% from the company. Return Customer Name, customer city, Salesman, salesman city, commission

```
SELECT      c.cust_name,c.city, s.name as Salesman,s.city,s.commission
FROM        salesman s
INNER JOIN  customer c
ON          s.salesman_id=c.salesman_id
WHERE       c.city!=s.city AND s.commission>0.12
```



SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
SQLQuery3.sql - LAP...itu gondaliya (61))*
273 %
Results
Messages
Client Statistics

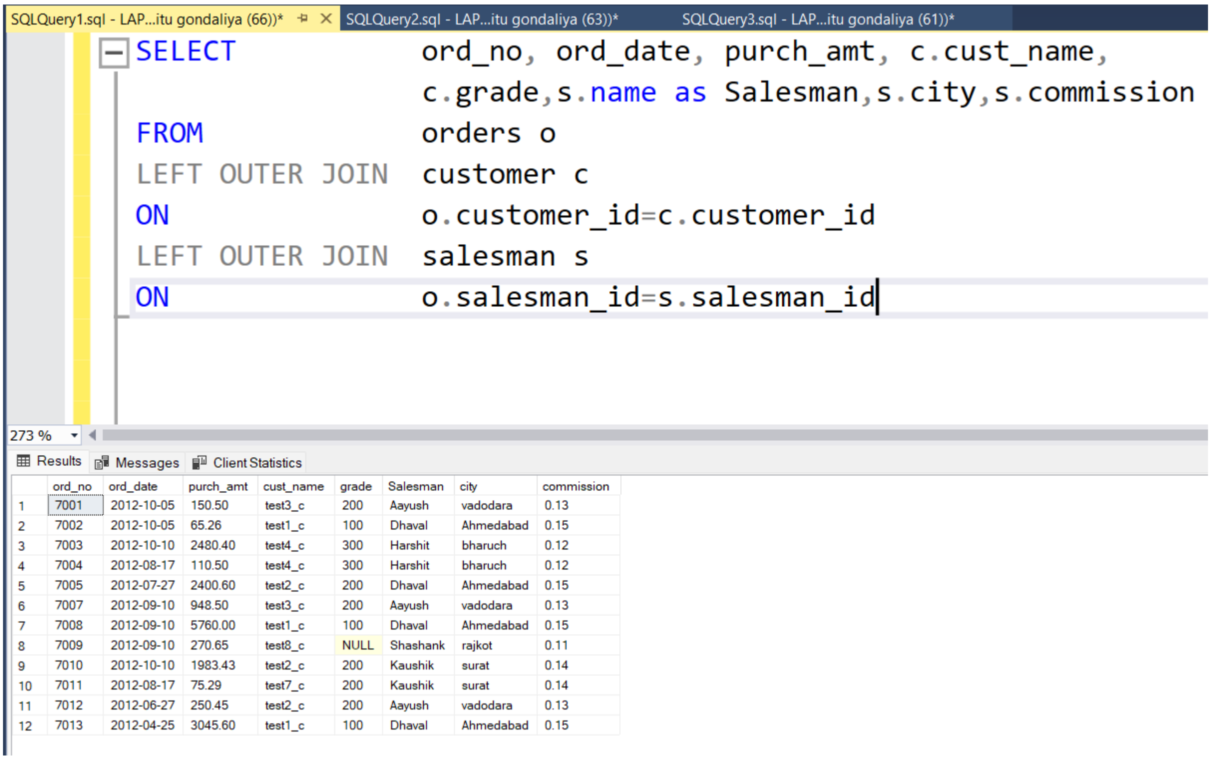
```
SELECT      c.cust_name,c.city, s.name as Salesman,s.city,s.commission
FROM        salesman s
INNER JOIN  customer c
ON          s.salesman_id=c.salesman_id
WHERE       c.city!=s.city AND s.commission>0.12
```

	cust_name	city	Salesman	city	commission
1	test7_c	kutch	Jenish	junagadh	0.13
2	test3_c	surendranagar	Aayush	vadodara	0.13
3	test4_c	rajkot	Aayush	vadodara	0.13

Query 6 :

write a SQL query to find the details of an order. Return ord_no, ord_date, purch_amt, Customer Name, grade, Salesman, commission

```
SELECT          ord_no, ord_date, purch_amt, c.cust_name,
            c.grade,s.name as Salesman,s.city,s.commission
FROM            orders o
LEFT OUTER JOIN  customer c
ON              o.customer_id=c.customer_id
LEFT OUTER JOIN  salesman s
ON              o.salesman_id=s.salesman_id
```


SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
SQLQuery3.sql - LAP...itu gondaliya (61))*
273 %
Results
Messages
Client Statistics

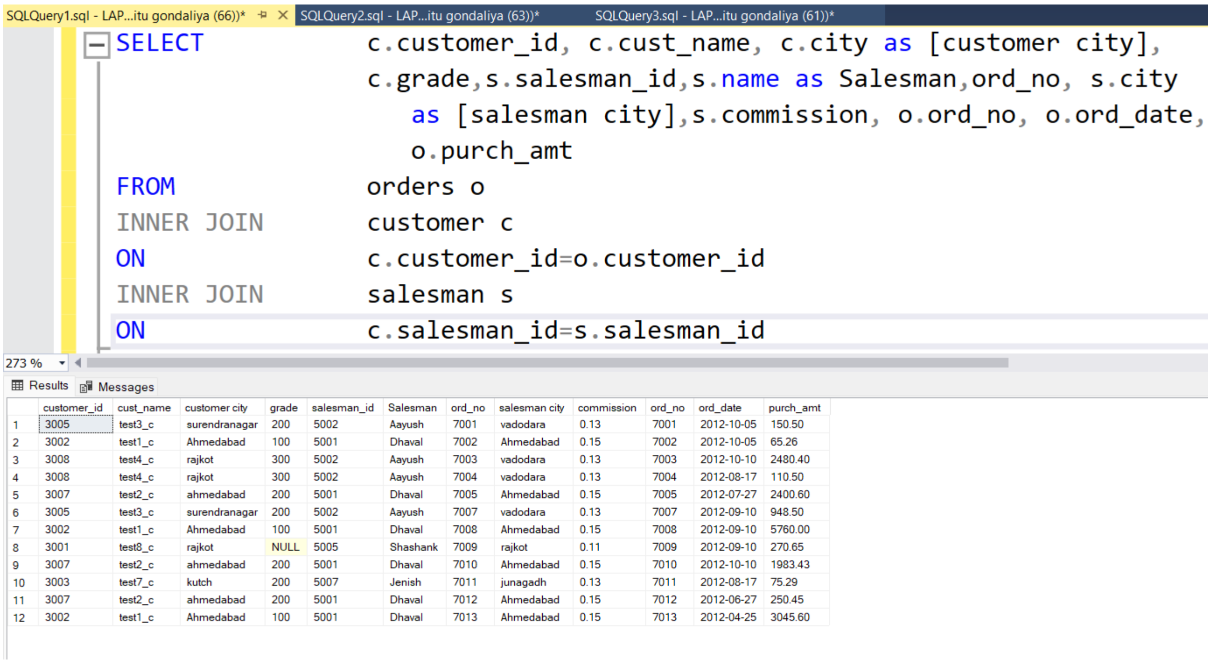
```
SELECT              ord_no, ord_date, purch_amt, c.cust_name,
                    c.grade,s.name as Salesman,s.city,s.commission
FROM                orders o
LEFT OUTER JOIN     customer c
ON                  o.customer_id=c.customer_id
LEFT OUTER JOIN     salesman s
ON                  o.salesman_id=s.salesman_id
```

	ord_no	ord_date	purch_amt	cust_name	grade	Salesman	city	commission
1	7001	2012-10-05	150.50	test3_c	200	Aayush	vadodara	0.13
2	7002	2012-10-05	65.26	test1_c	100	Dhaval	Ahmedabad	0.15
3	7003	2012-10-10	2480.40	test4_c	300	Harshit	bharuch	0.12
4	7004	2012-08-17	110.50	test4_c	300	Harshit	bharuch	0.12
5	7005	2012-07-27	2400.60	test2_c	200	Dhaval	Ahmedabad	0.15
6	7007	2012-09-10	948.50	test3_c	200	Aayush	vadodara	0.13
7	7008	2012-09-10	5760.00	test1_c	100	Dhaval	Ahmedabad	0.15
8	7009	2012-09-10	270.65	test8_c	NULL	Shashank	rajkot	0.11
9	7010	2012-10-10	1983.43	test2_c	200	Kaushik	surat	0.14
10	7011	2012-08-17	75.29	test7_c	200	Kaushik	surat	0.14
11	7012	2012-06-27	250.45	test2_c	200	Aayush	vadodara	0.13
12	7013	2012-04-25	3045.60	test1_c	100	Dhaval	Ahmedabad	0.15

Query 7 :

Write a SQL statement to join the tables salesman, customer and orders so that the same column of each table appears once and only the relational rows are returned.

```
SELECT          c.customer_id, c.cust_name, c.city as [customer city],
             c.grade,s.salesman_id,s.name as Salesman,ord_no, s.city
                                   as [salesman city],s.commission, o.ord_no, o.ord_date,
                                   o.purch_amt
FROM            orders o
INNER JOIN      customer c
ON              c.customer_id=o.customer_id
INNER JOIN      salesman s
ON              c.salesman_id=s.salesman_id
```


SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
SQLQuery3.sql - LAP...itu gondaliya (61))*
273 %
Results
Messages

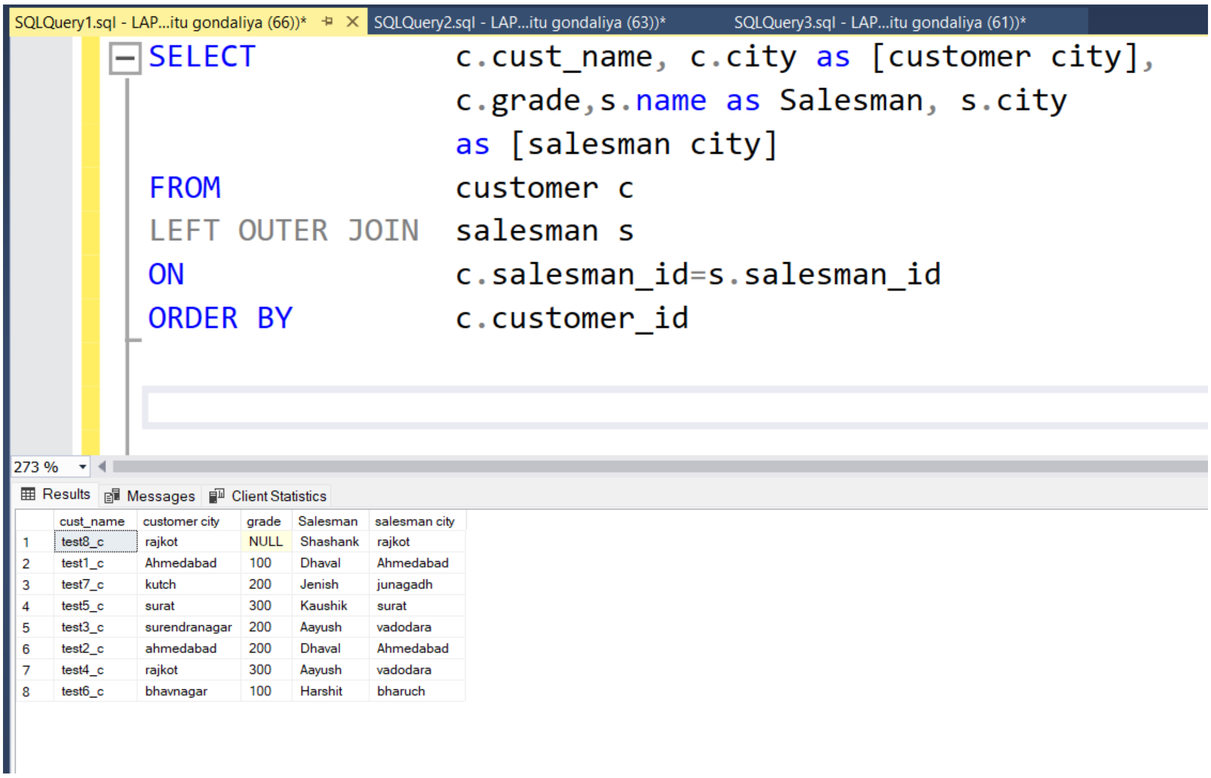
```
SELECT          c.customer_id, c.cust_name, c.city as [customer city],
                c.grade,s.salesman_id,s.name as Salesman,ord_no, s.city
                   as [salesman city],s.commission, o.ord_no, o.ord_date,
                   o.purch_amt
FROM            orders o
INNER JOIN      customer c
ON              c.customer_id=o.customer_id
INNER JOIN      salesman s
ON              c.salesman_id=s.salesman_id
```

	customer_id	cust_name	customer city	grade	salesman_id	Salesman	ord_no	salesman city	commission	ord_no	ord_date	purch_amt
1	3005	test3_c	surendranagar	200	5002	Aayush	7001	vadodara	0.13	7001	2012-10-05	150.50
2	3002	test1_c	Ahmedabad	100	5001	Dhaval	7002	Ahmedabad	0.15	7002	2012-10-05	65.26
3	3008	test4_c	rajkot	300	5002	Aayush	7003	vadodara	0.13	7003	2012-10-10	2480.40
4	3008	test4_c	rajkot	300	5002	Aayush	7004	vadodara	0.13	7004	2012-08-17	110.50
5	3007	test2_c	ahmedabad	200	5001	Dhaval	7005	Ahmedabad	0.15	7005	2012-07-27	2400.60
6	3005	test3_c	surendranagar	200	5002	Aayush	7007	vadodara	0.13	7007	2012-09-10	948.50
7	3002	test1_c	Ahmedabad	100	5001	Dhaval	7008	Ahmedabad	0.15	7008	2012-09-10	5760.00
8	3001	test8_c	rajkot	NULL	5005	Shashank	7009	rajkot	0.11	7009	2012-09-10	270.65
9	3007	test2_c	ahmedabad	200	5001	Dhaval	7010	Ahmedabad	0.15	7010	2012-10-10	1983.43
10	3003	test7_c	kutch	200	5007	Jenish	7011	junagadh	0.13	7011	2012-08-17	75.29
11	3007	test2_c	ahmedabad	200	5001	Dhaval	7012	Ahmedabad	0.15	7012	2012-06-27	250.45
12	3002	test1_c	Ahmedabad	100	5001	Dhaval	7013	Ahmedabad	0.15	7013	2012-04-25	3045.60

Query 8 :

write a SQL query to display the customer name, customer city, grade, salesman, salesman city. The results should be sorted by ascending customer_id.

```
SELECT          c.cust_name, c.city as [customer city],
            c.grade,s.name as Salesman, s.city
                                as [salesman city]
FROM            customer c
LEFT OUTER JOIN  salesman s
ON              c.salesman_id=s.salesman_id
ORDER BY        c.customer_id
```


SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
SQLQuery3.sql - LAP...itu gondaliya (61))*
273 %
Results
Messages
Client Statistics

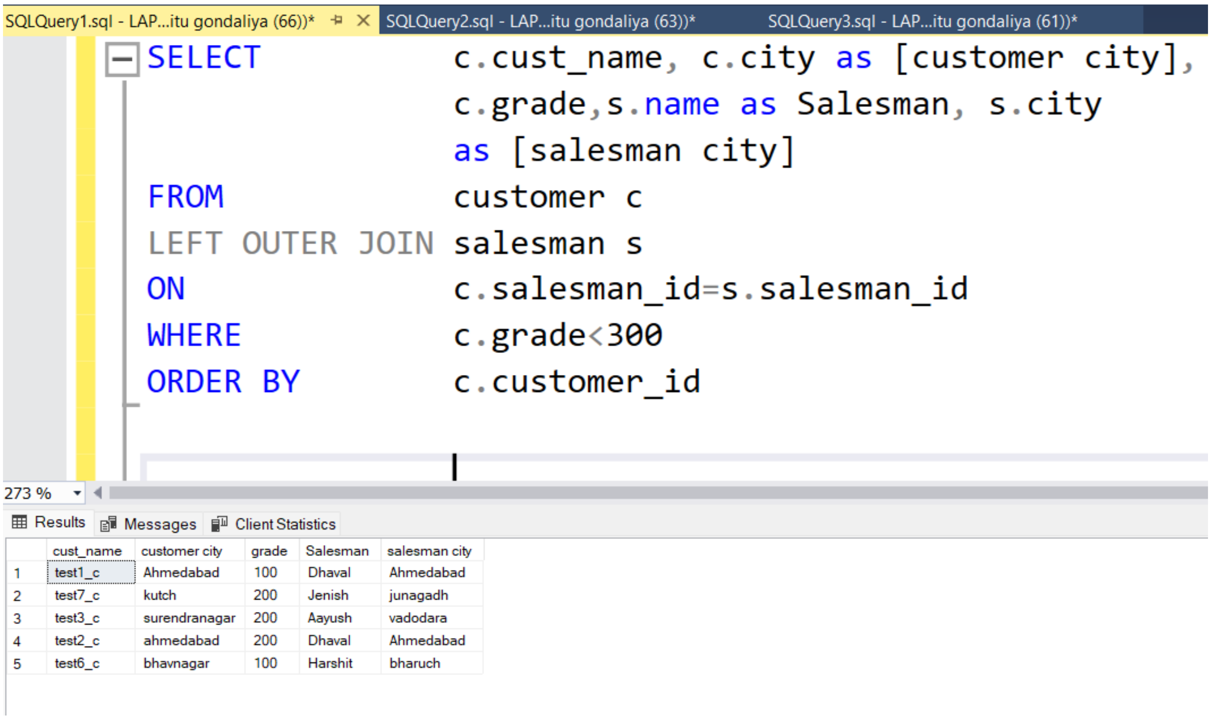
```
SELECT          c.cust_name, c.city as [customer city],
                c.grade,s.name as Salesman, s.city
                as [salesman city]
FROM            customer c
LEFT OUTER JOIN salesman s
ON              c.salesman_id=s.salesman_id
ORDER BY        c.customer_id
```

	cust_name	customer city	grade	Salesman	salesman city
1	test8_c	rajkot	NULL	Shashank	rajkot
2	test1_c	Ahmedabad	100	Dhaval	Ahmedabad
3	test7_c	kutch	200	Jenish	junagadh
4	test5_c	surat	300	Kaushik	surat
5	test3_c	surendranagar	200	Aayush	vadodara
6	test2_c	ahmedabad	200	Dhaval	Ahmedabad
7	test4_c	rajkot	300	Aayush	vadodara
8	test6_c	bhavnagar	100	Harshit	bharuch

Query 9 :

write a SQL query to find those customers with a grade less than 300. Return cust_name, customer city, grade, Salesman, salesmancity. The result should be ordered by ascending customer_id.

```
SELECT          c.cust_name, c.city as [customer city],
           c.grade,s.name as Salesman, s.city
                                as [salesman city]
FROM            customer c
LEFT OUTER JOIN salesman s
ON              c.salesman_id=s.salesman_id
WHERE           c.grade<300
ORDER BY        c.customer_id
```


SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
SQLQuery3.sql - LAP...itu gondaliya (61))*
273 %
Results
Messages
Client Statistics

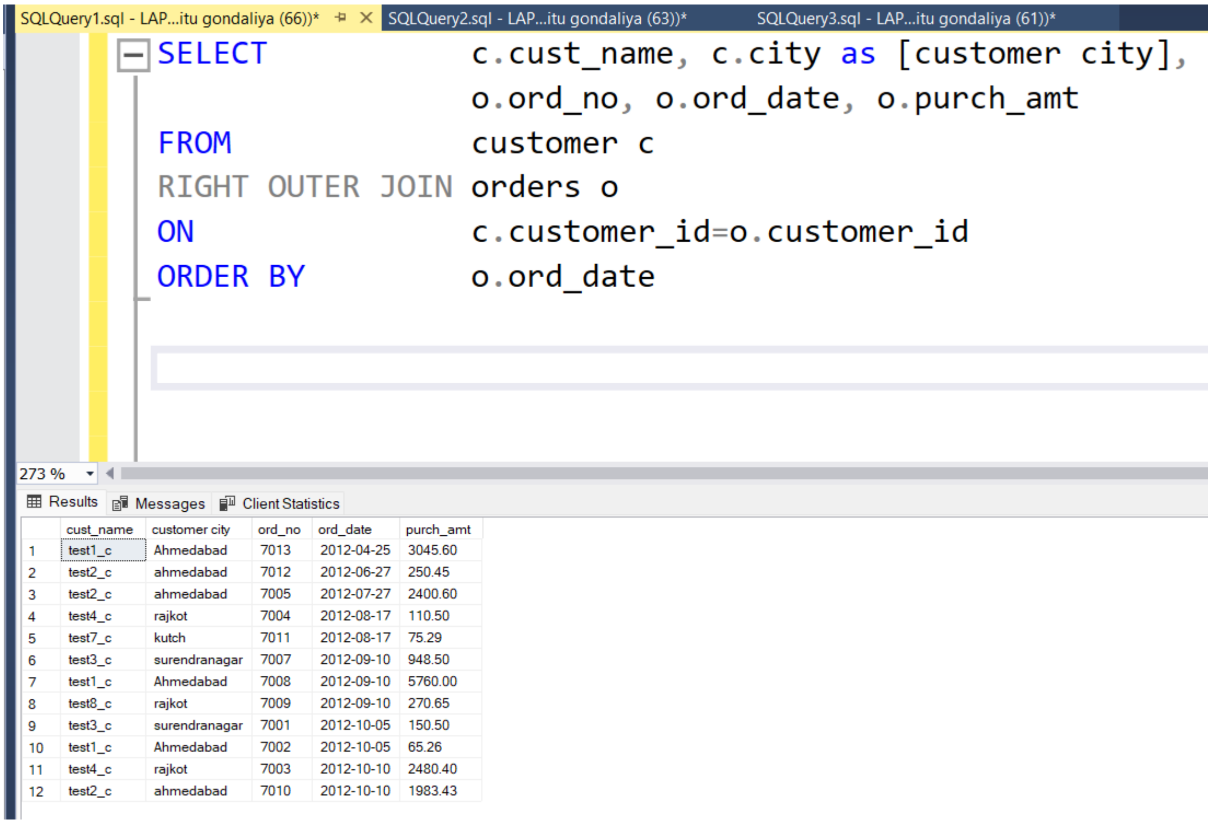
```
SELECT          c.cust_name, c.city as [customer city],
                c.grade,s.name as Salesman, s.city
                as [salesman city]
FROM            customer c
LEFT OUTER JOIN salesman s
ON              c.salesman_id=s.salesman_id
WHERE           c.grade<300
ORDER BY        c.customer_id
```

	cust_name	customer city	grade	Salesman	salesman city
1	test1_c	Ahmedabad	100	Dhaval	Ahmedabad
2	test7_c	kutch	200	Jenish	junagadh
3	test3_c	surendranagar	200	Aayush	vadodara
4	test2_c	ahmedabad	200	Dhaval	Ahmedabad
5	test6_c	bhavnagar	100	Harshit	bharuch

Query 10 :

Write a SQL statement to make a report with customer name, city, order number, order date, and order amount in ascending order according to the order date to determine whether any of the existing customers have placed an order or not

```
SELECT          c.cust_name, c.city as [customer city],
            o.ord_no, o.ord_date, o.purch_amt
FROM            customer c
RIGHT OUTER JOIN orders o
ON              c.customer_id=o.customer_id
ORDER BY        o.ord_date
```


SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
SQLQuery3.sql - LAP...itu gondaliya (61))*
273 %
Results
Messages
Client Statistics

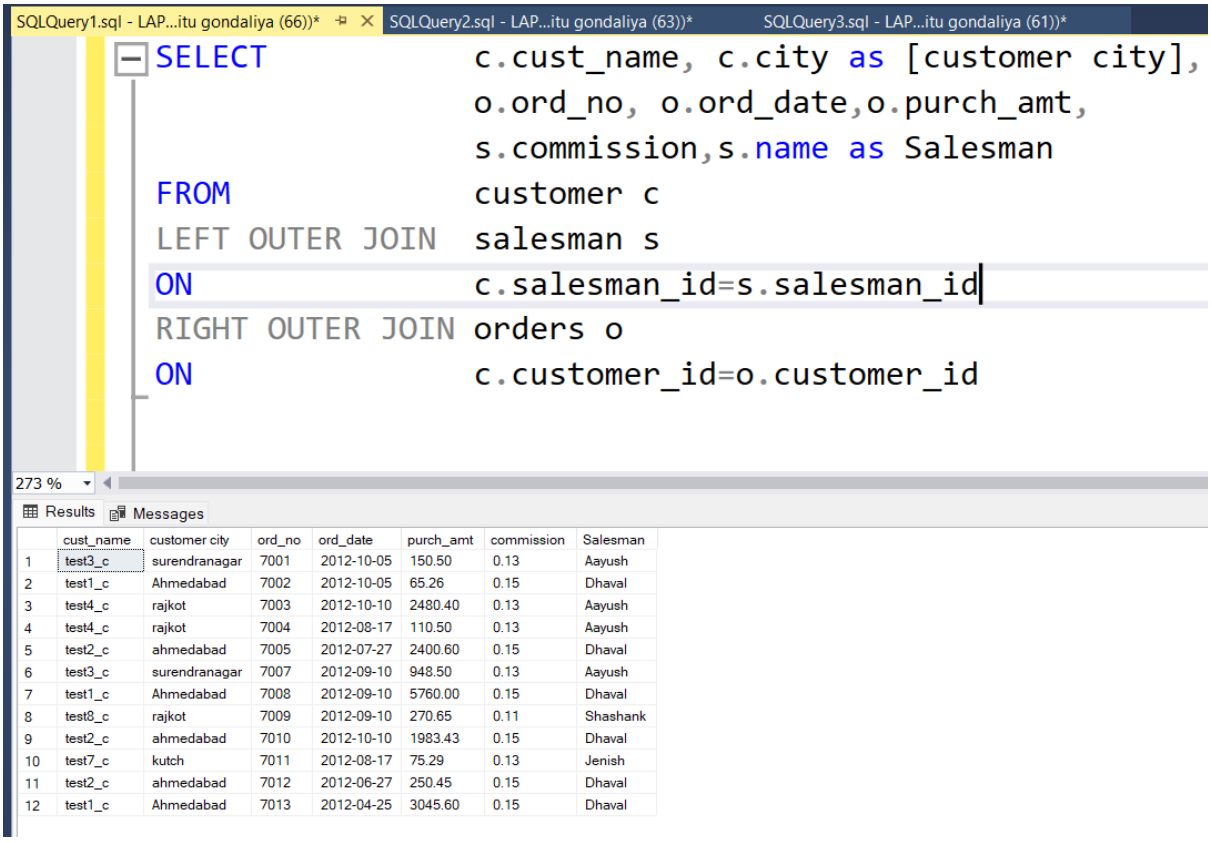
```
SELECT              c.cust_name, c.city as [customer city],
                    o.ord_no, o.ord_date, o.purch_amt
FROM                customer c
RIGHT OUTER JOIN orders o
ON                  c.customer_id=o.customer_id
ORDER BY            o.ord_date
```

	cust_name	customer city	ord_no	ord_date	purch_amt
1	test1_c	Ahmedabad	7013	2012-04-25	3045.60
2	test2_c	ahmedabad	7012	2012-06-27	250.45
3	test2_c	ahmedabad	7005	2012-07-27	2400.60
4	test4_c	rajkot	7004	2012-08-17	110.50
5	test7_c	kutch	7011	2012-08-17	75.29
6	test3_c	surendranagar	7007	2012-09-10	948.50
7	test1_c	Ahmedabad	7008	2012-09-10	5760.00
8	test8_c	rajkot	7009	2012-09-10	270.65
9	test3_c	surendranagar	7001	2012-10-05	150.50
10	test1_c	Ahmedabad	7002	2012-10-05	65.26
11	test4_c	rajkot	7003	2012-10-10	2480.40
12	test2_c	ahmedabad	7010	2012-10-10	1983.43

Query 11 :

Write a SQL statement to generate a report with customer name, city, order number, order date, order amount, salesperson name, and commission to determine if any of the existing customers have not placed orders or if they have placed orders through their salesman or by themselves

```
SELECT          c.cust_name, c.city as [customer city],
             o.ord_no, o.ord_date,o.purch_amt,
             s.commission,s.name as Salesman
FROM           customer c
LEFT OUTER JOIN  salesman s
ON              c.salesman_id=s.salesman_id
RIGHT OUTER JOIN  orders o
ON              c.customer_id=o.customer_id
```



SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
SQLQuery3.sql - LAP...itu gondaliya (61))*
273 %
Results
Messages

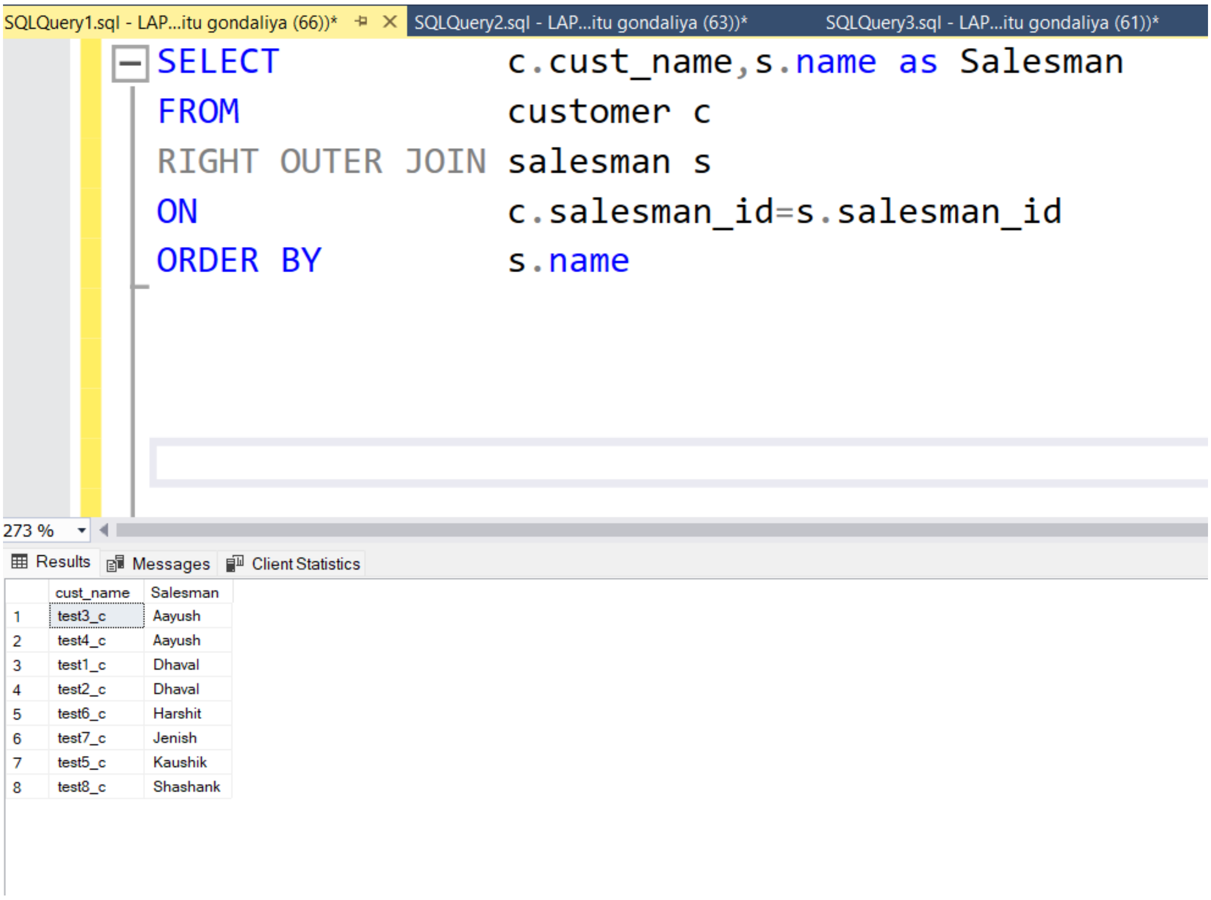
```
SELECT          c.cust_name, c.city as [customer city],
                o.ord_no, o.ord_date,o.purch_amt,
                s.commission,s.name as Salesman
FROM            customer c
LEFT OUTER JOIN salesman s
ON              c.salesman_id=s.salesman_id
RIGHT OUTER JOIN orders o
ON              c.customer_id=o.customer_id
```

	cust_name	customer city	ord_no	ord_date	purch_amt	commission	Salesman
1	test3_c	surendranagar	7001	2012-10-05	150.50	0.13	Aayush
2	test1_c	Ahmedabad	7002	2012-10-05	65.26	0.15	Dhaval
3	test4_c	rajkot	7003	2012-10-10	2480.40	0.13	Aayush
4	test4_c	rajkot	7004	2012-08-17	110.50	0.13	Aayush
5	test2_c	ahmedabad	7005	2012-07-27	2400.60	0.15	Dhaval
6	test3_c	surendranagar	7007	2012-09-10	948.50	0.13	Aayush
7	test1_c	Ahmedabad	7008	2012-09-10	5760.00	0.15	Dhaval
8	test8_c	rajkot	7009	2012-09-10	270.65	0.11	Shashank
9	test2_c	ahmedabad	7010	2012-10-10	1983.43	0.15	Dhaval
10	test7_c	kutch	7011	2012-08-17	75.29	0.13	Jenish
11	test2_c	ahmedabad	7012	2012-06-27	250.45	0.15	Dhaval
12	test1_c	Ahmedabad	7013	2012-04-25	3045.60	0.15	Dhaval

Query 12 :

Write a SQL statement to generate a list in ascending order of salespersons who work either for one or more customers or have not yet joined any of the customers

```
SELECT          c.cust_name,s.name as Salesman
FROM            customer c
RIGHT OUTER JOIN salesman s
ON              c.salesman_id=s.salesman_id
ORDER BY        s.name
```


SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
SQLQuery3.sql - LAP...itu gondaliya (61))*
273 %
Results
Messages
Client Statistics

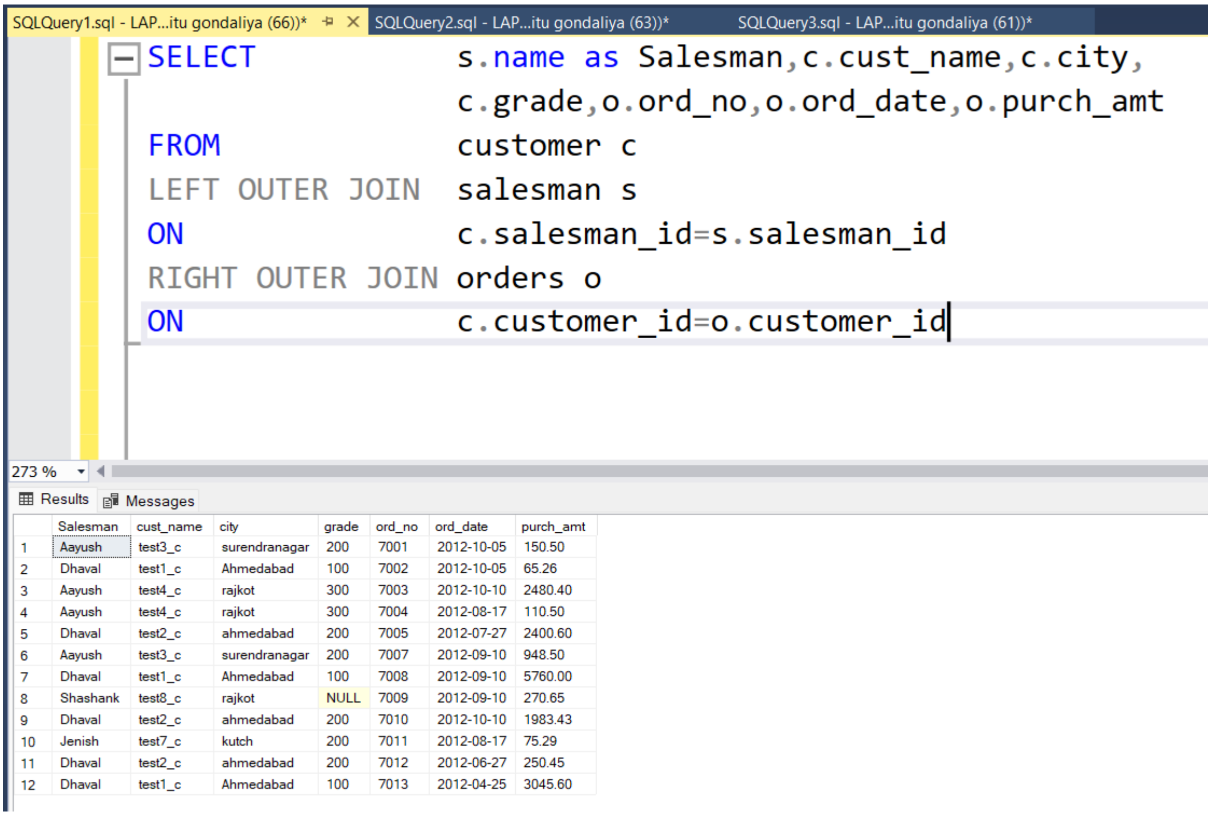
```
SELECT           c.cust_name,s.name as Salesman
FROM             customer c
RIGHT OUTER JOIN salesman s
ON               c.salesman_id=s.salesman_id
ORDER BY         s.name
```

	cust_name	Salesman
1	test3_c	Aayush
2	test4_c	Aayush
3	test1_c	Dhaval
4	test2_c	Dhaval
5	test6_c	Harshit
6	test7_c	Jenish
7	test5_c	Kaushik
8	test8_c	Shashank

Query 13 :

write a SQL query to list all salespersons along with customer name, city, grade, order number, date, and amount.

```
SELECT          s.name as Salesman,c.cust_name,c.city,c.grade,
            o.ord_no,o.ord_date,o.purch_amt
FROM            customer c
LEFT OUTER JOIN  salesman s
ON              c.salesman_id=s.salesman_id
RIGHT OUTER JOIN orders o
ON              c.customer_id=o.customer_id
```



SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
SQLQuery3.sql - LAP...itu gondaliya (61))*

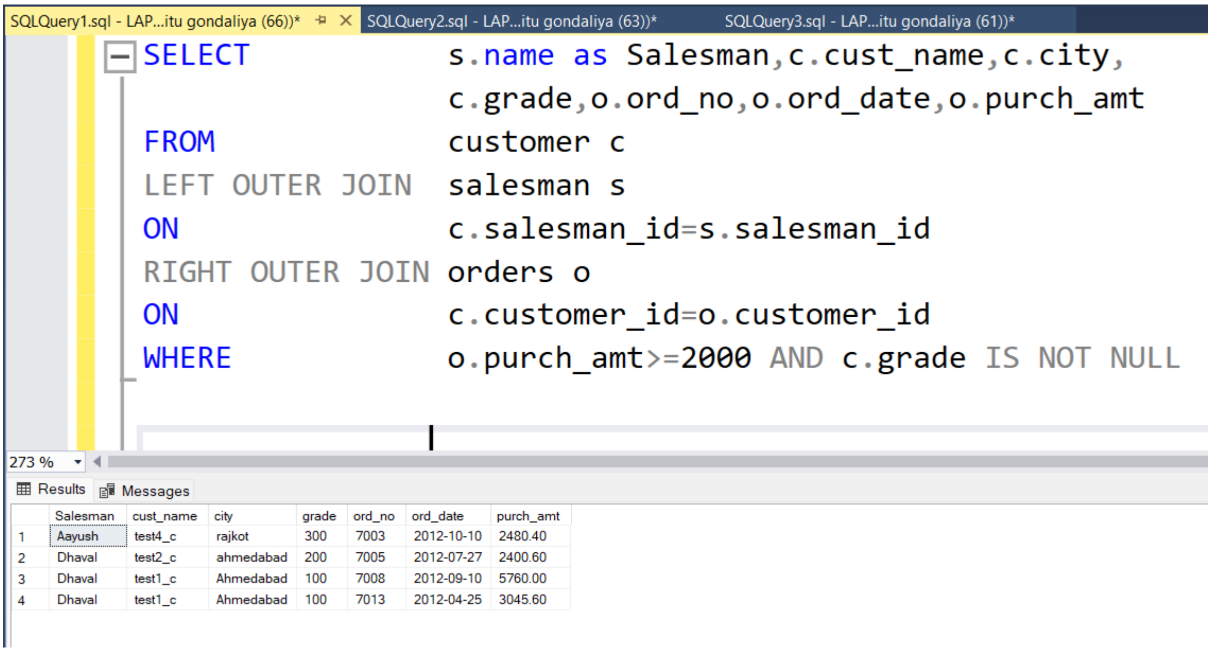
```
SELECT          s.name as Salesman,c.cust_name,c.city,
                c.grade,o.ord_no,o.ord_date,o.purch_amt
FROM            customer c
LEFT OUTER JOIN salesman s
ON              c.salesman_id=s.salesman_id
RIGHT OUTER JOIN orders o
ON              c.customer_id=o.customer_id
```

	Salesman	cust_name	city	grade	ord_no	ord_date	purch_amt
1	Aayush	test3_c	surendranagar	200	7001	2012-10-05	150.50
2	Dhaval	test1_c	Ahmedabad	100	7002	2012-10-05	65.26
3	Aayush	test4_c	rajkot	300	7003	2012-10-10	2480.40
4	Aayush	test4_c	rajkot	300	7004	2012-08-17	110.50
5	Dhaval	test2_c	ahmedabad	200	7005	2012-07-27	2400.60
6	Aayush	test3_c	surendranagar	200	7007	2012-09-10	948.50
7	Dhaval	test1_c	Ahmedabad	100	7008	2012-09-10	5760.00
8	Shashank	test8_c	rajkot	NULL	7009	2012-09-10	270.65
9	Dhaval	test2_c	ahmedabad	200	7010	2012-10-10	1983.43
10	Jenish	test7_c	kutch	200	7011	2012-08-17	75.29
11	Dhaval	test2_c	ahmedabad	200	7012	2012-06-27	250.45
12	Dhaval	test1_c	Ahmedabad	100	7013	2012-04-25	3045.60

QUERY 14:

Write a SQL statement to make a list for the salesmen who either work for one or more customers or yet to join any of the customers. The customer may have placed, either one or more orders on or above order amount 2000 and must have a grade, or he may not have placed any order to the associated supplier.

```
SELECT          s.name as Salesman,c.cust_name,c.city,
                c.grade,o.ord_no,o.ord_date,o.purch_amt
FROM            customer c
LEFT OUTER JOIN  salesman s
ON              c.salesman_id=s.salesman_id
RIGHT OUTER JOIN orders o
ON              c.customer_id=o.customer_id
WHERE           o.purch_amt>=2000 AND c.grade IS NOT NULL
```



SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
SQLQuery3.sql - LAP...itu gondaliya (61))*
273 %
Results
Messages

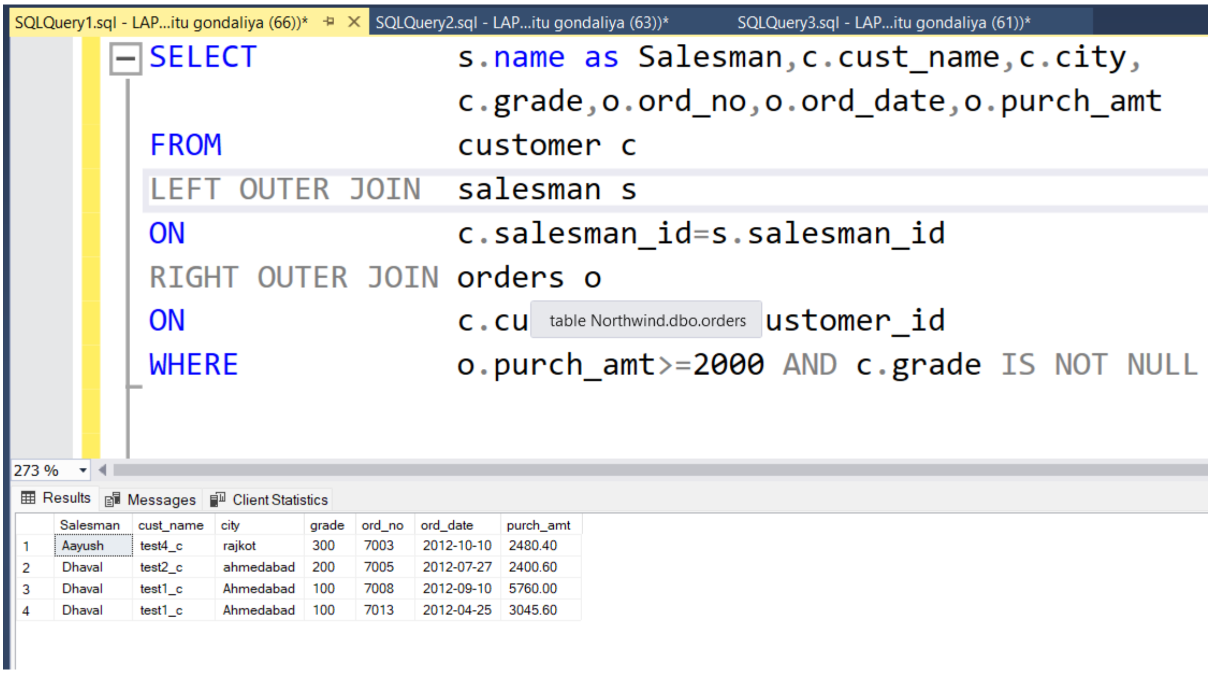
```
SELECT                  s.name as Salesman,c.cust_name,c.city,
                        c.grade,o.ord_no,o.ord_date,o.purch_amt
FROM                    customer c
LEFT OUTER JOIN         salesman s
ON                      c.salesman_id=s.salesman_id
RIGHT OUTER JOIN        orders o
ON                      c.customer_id=o.customer_id
WHERE                   o.purch_amt>=2000 AND c.grade IS NOT NULL
```

	Salesman	cust_name	city	grade	ord_no	ord_date	purch_amt
1	Aayush	test4_c	rajkot	300	7003	2012-10-10	2480.40
2	Dhaval	test2_c	ahmedabad	200	7005	2012-07-27	2400.60
3	Dhaval	test1_c	Ahmedabad	100	7008	2012-09-10	5760.00
4	Dhaval	test1_c	Ahmedabad	100	7013	2012-04-25	3045.60

QUERY 15:

Write a SQL statement to generate a list of all the salesmen who either work for one or more customers or have yet to join any of them. The customer may have placed one or more orders at or above order amount 2000, and must have a grade, or he may not have placed any orders to the associated supplier.

```
SELECT          s.name as Salesman,c.cust_name,c.city,
                c.grade,o.ord_no,o.ord_date,o.purch_amt
FROM            customer c
LEFT OUTER JOIN  salesman s
ON              c.salesman_id=s.salesman_id
RIGHT OUTER JOIN orders o
ON              c.customer_id=o.customer_id
WHERE           o.purch_amt>=2000 AND c.grade IS NOT NULL
```


SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
SQLQuery3.sql - LAP...itu gondaliya (61))*
273 %
Results
Messages
Client Statistics

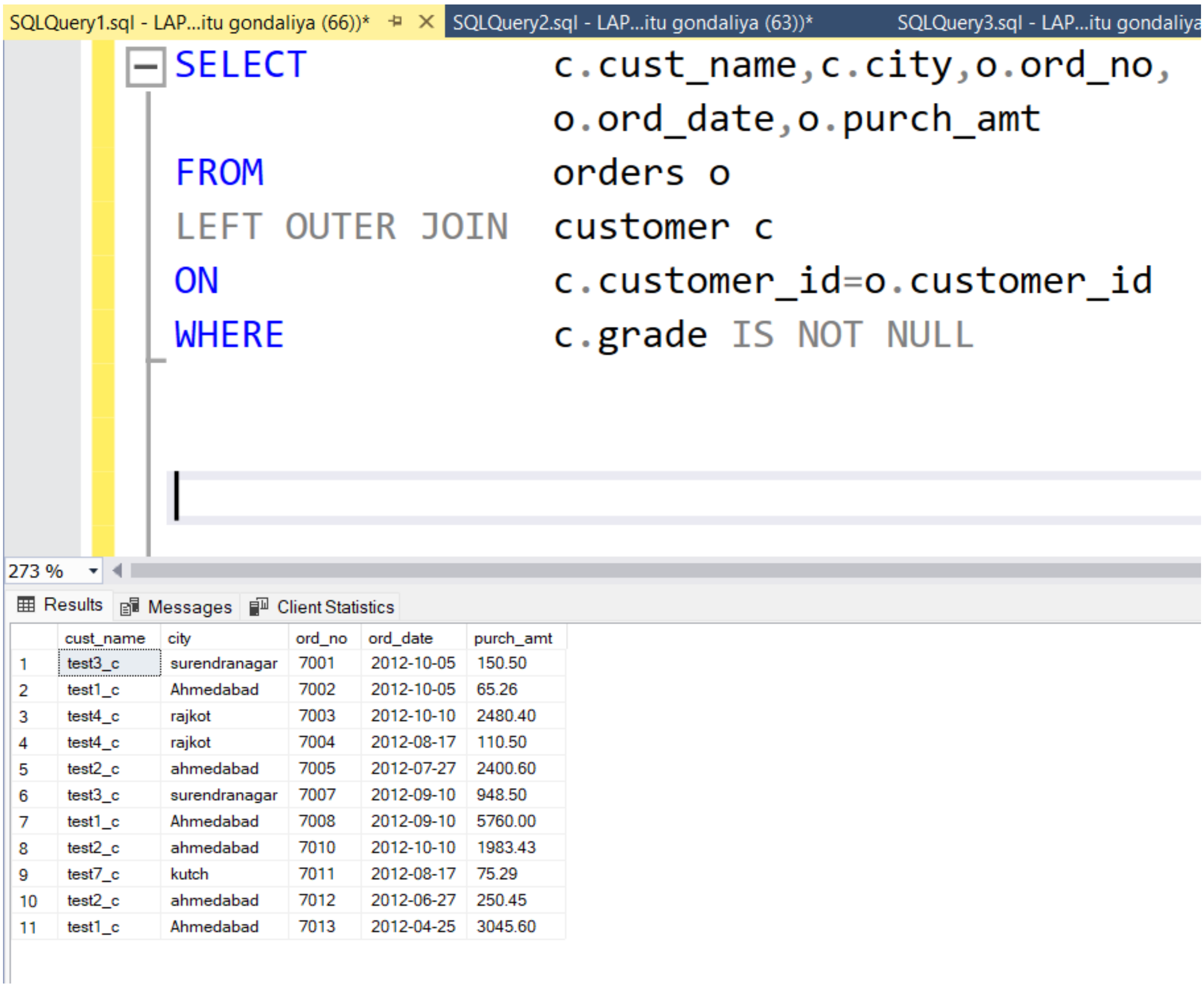
```
SELECT           s.name as Salesman,c.cust_name,c.city,
                 c.grade,o.ord_no,o.ord_date,o.purch_amt
FROM             customer c
LEFT OUTER JOIN  salesman s
ON               c.salesman_id=s.salesman_id
RIGHT OUTER JOIN orders o
ON               c.cu table Northwind.dbo.orders ustomer_id
WHERE            o.purch_amt>=2000 AND c.grade IS NOT NULL
```

	Salesman	cust_name	city	grade	ord_no	ord_date	purch_amt
1	Aayush	test4_c	rajkot	300	7003	2012-10-10	2480.40
2	Dhaval	test2_c	ahmedabad	200	7005	2012-07-27	2400.60
3	Dhaval	test1_c	Ahmedabad	100	7008	2012-09-10	5760.00
4	Dhaval	test1_c	Ahmedabad	100	7013	2012-04-25	3045.60

Query 16:

Write a SQL statement to generate a report with the customer name, city, order no. order date, purchase amount for only those customers on the list who must have a grade and placed one or more orders or which order(s) have been placed by the customer who neither is on the list nor has a grade.

```
SELECT          c.cust_name,c.city,o.ord_no,
                o.ord_date,o.purch_amt
FROM            orders o
LEFT OUTER JOIN  customer c
ON              c.customer_id=o.customer_id
WHERE           c.grade IS NOT NULL
```


SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
SQLQuery3.sql - LAP...itu gondaliya
273 %
Results
Messages
Client Statistics

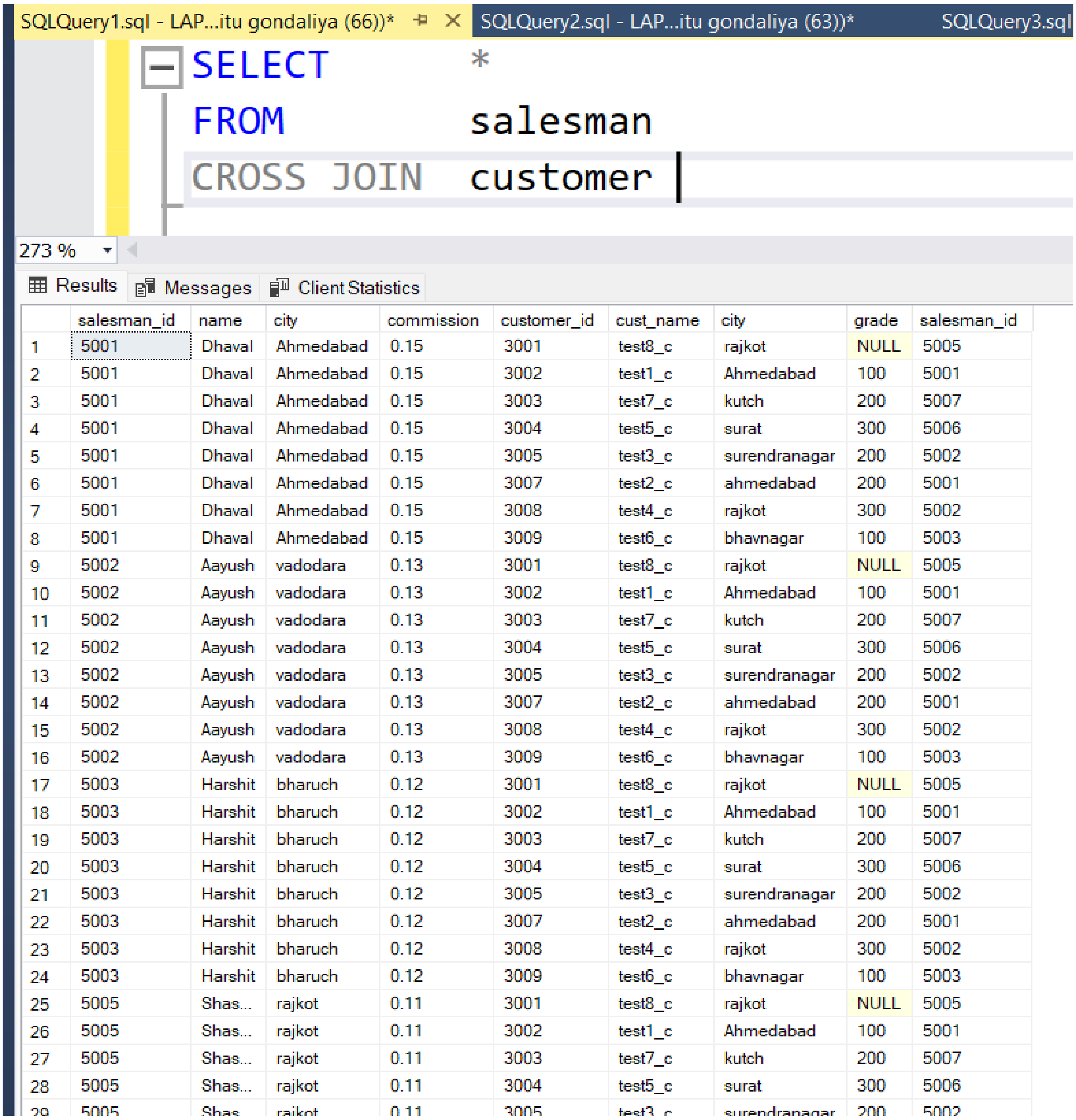
```
SELECT          c.cust_name,c.city,o.ord_no,
                o.ord_date,o.purch_amt
FROM            orders o
LEFT OUTER JOIN customer c
ON              c.customer_id=o.customer_id
WHERE           c.grade IS NOT NULL
```

	cust_name	city	ord_no	ord_date	purch_amt
1	test3_c	surendranagar	7001	2012-10-05	150.50
2	test1_c	Ahmedabad	7002	2012-10-05	65.26
3	test4_c	rajkot	7003	2012-10-10	2480.40
4	test4_c	rajkot	7004	2012-08-17	110.50
5	test2_c	ahmedabad	7005	2012-07-27	2400.60
6	test3_c	surendranagar	7007	2012-09-10	948.50
7	test1_c	Ahmedabad	7008	2012-09-10	5760.00
8	test2_c	ahmedabad	7010	2012-10-10	1983.43
9	test7_c	kutch	7011	2012-08-17	75.29
10	test2_c	ahmedabad	7012	2012-06-27	250.45
11	test1_c	Ahmedabad	7013	2012-04-25	3045.60

Query 17 :

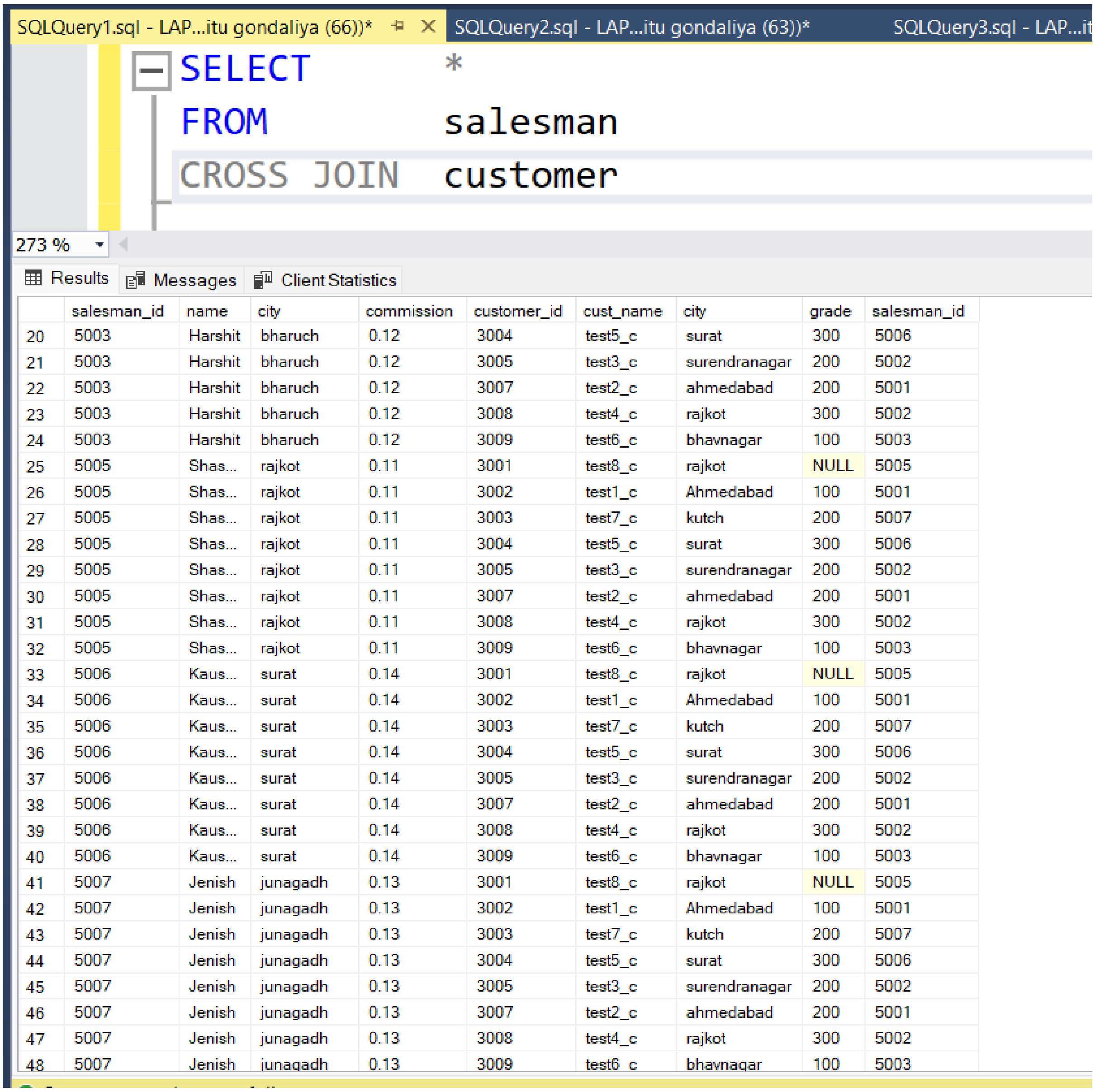
Write a SQL query to combine each row of the salesman table with each row of the customer table

```
SELECT      *
FROM        salesman
CROSS JOIN  customer
```


SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
SQLQuery3.sql
273 %
Results
Messages
Client Statistics

```sql
SELECT        *
FROM          salesman
CROSS JOIN    customer
```

	salesman_id	name	city	commission	customer_id	cust_name	city	grade	salesman_id
1	5001	Dhaval	Ahmedabad	0.15	3001	test8_c	rajkot	NULL	5005
2	5001	Dhaval	Ahmedabad	0.15	3002	test1_c	Ahmedabad	100	5001
3	5001	Dhaval	Ahmedabad	0.15	3003	test7_c	kutch	200	5007
4	5001	Dhaval	Ahmedabad	0.15	3004	test5_c	surat	300	5006
5	5001	Dhaval	Ahmedabad	0.15	3005	test3_c	surendranagar	200	5002
6	5001	Dhaval	Ahmedabad	0.15	3007	test2_c	ahmedabad	200	5001
7	5001	Dhaval	Ahmedabad	0.15	3008	test4_c	rajkot	300	5002
8	5001	Dhaval	Ahmedabad	0.15	3009	test6_c	bhavnagar	100	5003
9	5002	Aayush	vadodara	0.13	3001	test8_c	rajkot	NULL	5005
10	5002	Aayush	vadodara	0.13	3002	test1_c	Ahmedabad	100	5001
11	5002	Aayush	vadodara	0.13	3003	test7_c	kutch	200	5007
12	5002	Aayush	vadodara	0.13	3004	test5_c	surat	300	5006
13	5002	Aayush	vadodara	0.13	3005	test3_c	surendranagar	200	5002
14	5002	Aayush	vadodara	0.13	3007	test2_c	ahmedabad	200	5001
15	5002	Aayush	vadodara	0.13	3008	test4_c	rajkot	300	5002
16	5002	Aayush	vadodara	0.13	3009	test6_c	bhavnagar	100	5003
17	5003	Harshit	bharuch	0.12	3001	test8_c	rajkot	NULL	5005
18	5003	Harshit	bharuch	0.12	3002	test1_c	Ahmedabad	100	5001
19	5003	Harshit	bharuch	0.12	3003	test7_c	kutch	200	5007
20	5003	Harshit	bharuch	0.12	3004	test5_c	surat	300	5006
21	5003	Harshit	bharuch	0.12	3005	test3_c	surendranagar	200	5002
22	5003	Harshit	bharuch	0.12	3007	test2_c	ahmedabad	200	5001
23	5003	Harshit	bharuch	0.12	3008	test4_c	rajkot	300	5002
24	5003	Harshit	bharuch	0.12	3009	test6_c	bhavnagar	100	5003
25	5005	Shas...	rajkot	0.11	3001	test8_c	rajkot	NULL	5005
26	5005	Shas...	rajkot	0.11	3002	test1_c	Ahmedabad	100	5001
27	5005	Shas...	rajkot	0.11	3003	test7_c	kutch	200	5007
28	5005	Shas...	rajkot	0.11	3004	test5_c	surat	300	5006
29	5005	Shas...	rajkot	0.11	3005	test3_c	surendranagar	200	5002



SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
SQLQuery3.sql - LAP...it
273 %
Results
Messages
Client Statistics

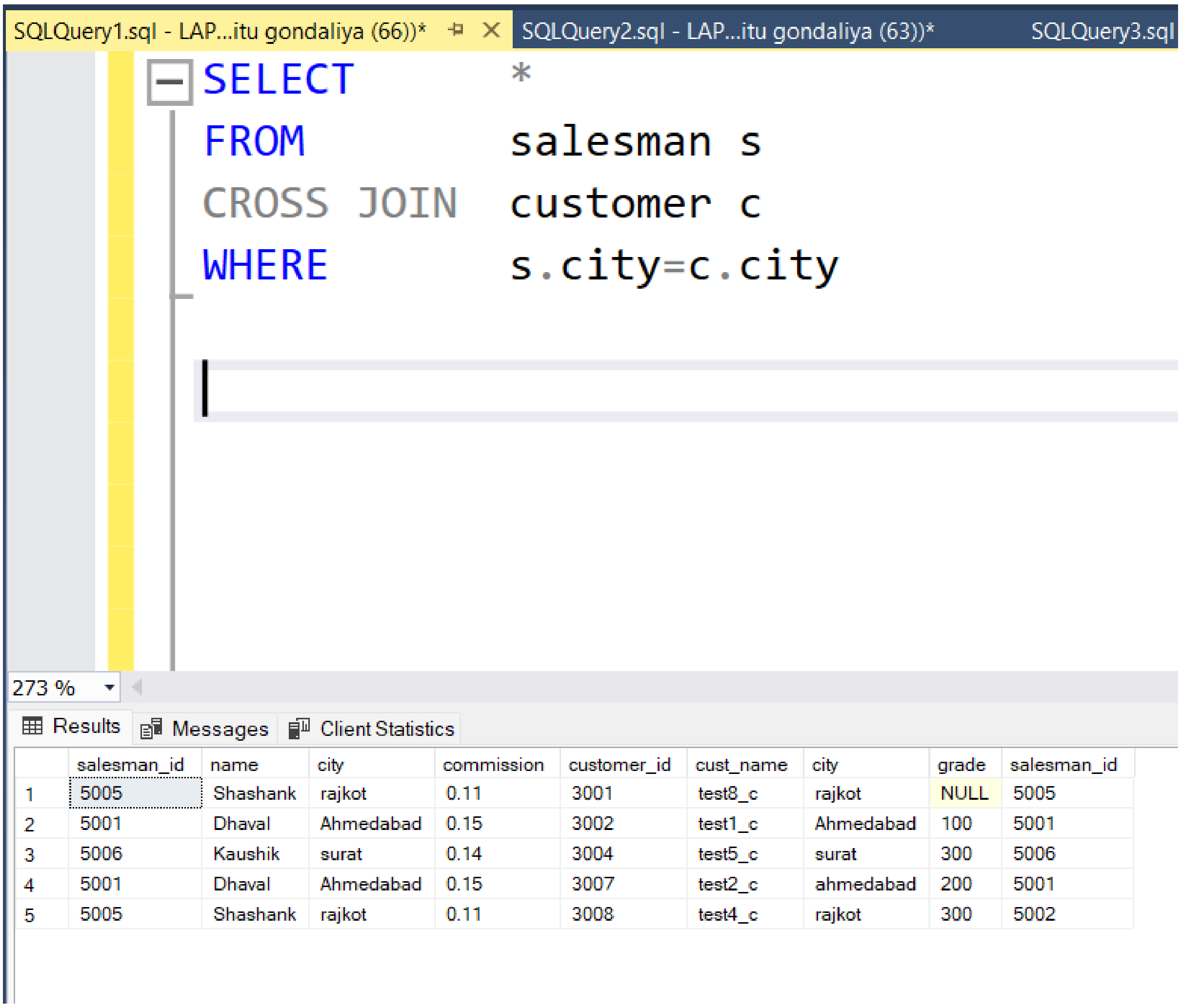
```sql
SELECT      *
FROM        salesman
CROSS JOIN  customer
```

	salesman_id	name	city	commission	customer_id	cust_name	city	grade	salesman_id
20	5003	Harshit	bharuch	0.12	3004	test5_c	surat	300	5006
21	5003	Harshit	bharuch	0.12	3005	test3_c	surendranagar	200	5002
22	5003	Harshit	bharuch	0.12	3007	test2_c	ahmedabad	200	5001
23	5003	Harshit	bharuch	0.12	3008	test4_c	rajkot	300	5002
24	5003	Harshit	bharuch	0.12	3009	test6_c	bhavnagar	100	5003
25	5005	Shas...	rajkot	0.11	3001	test8_c	rajkot	NULL	5005
26	5005	Shas...	rajkot	0.11	3002	test1_c	Ahmedabad	100	5001
27	5005	Shas...	rajkot	0.11	3003	test7_c	kutch	200	5007
28	5005	Shas...	rajkot	0.11	3004	test5_c	surat	300	5006
29	5005	Shas...	rajkot	0.11	3005	test3_c	surendranagar	200	5002
30	5005	Shas...	rajkot	0.11	3007	test2_c	ahmedabad	200	5001
31	5005	Shas...	rajkot	0.11	3008	test4_c	rajkot	300	5002
32	5005	Shas...	rajkot	0.11	3009	test6_c	bhavnagar	100	5003
33	5006	Kaus...	surat	0.14	3001	test8_c	rajkot	NULL	5005
34	5006	Kaus...	surat	0.14	3002	test1_c	Ahmedabad	100	5001
35	5006	Kaus...	surat	0.14	3003	test7_c	kutch	200	5007
36	5006	Kaus...	surat	0.14	3004	test5_c	surat	300	5006
37	5006	Kaus...	surat	0.14	3005	test3_c	surendranagar	200	5002
38	5006	Kaus...	surat	0.14	3007	test2_c	ahmedabad	200	5001
39	5006	Kaus...	surat	0.14	3008	test4_c	rajkot	300	5002
40	5006	Kaus...	surat	0.14	3009	test6_c	bhavnagar	100	5003
41	5007	Jenish	junagadh	0.13	3001	test8_c	rajkot	NULL	5005
42	5007	Jenish	junagadh	0.13	3002	test1_c	Ahmedabad	100	5001
43	5007	Jenish	junagadh	0.13	3003	test7_c	kutch	200	5007
44	5007	Jenish	junagadh	0.13	3004	test5_c	surat	300	5006
45	5007	Jenish	junagadh	0.13	3005	test3_c	surendranagar	200	5002
46	5007	Jenish	junagadh	0.13	3007	test2_c	ahmedabad	200	5001
47	5007	Jenish	junagadh	0.13	3008	test4_c	rajkot	300	5002
48	5007	Jenish	junagadh	0.13	3009	test6_c	bhavnagar	100	5003

Query 18 :

Write a SQL statement to create a Cartesian product between salesperson and customer, i.e. each salesperson will appear for all customers and vice versa for that salesperson who belongs to that city

```
SELECT      *
FROM        salesman s
CROSS JOIN  customer c
WHERE       s.city=c.city
```


SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
SQLQuery3.sql
273 %
Results
Messages
Client Statistics

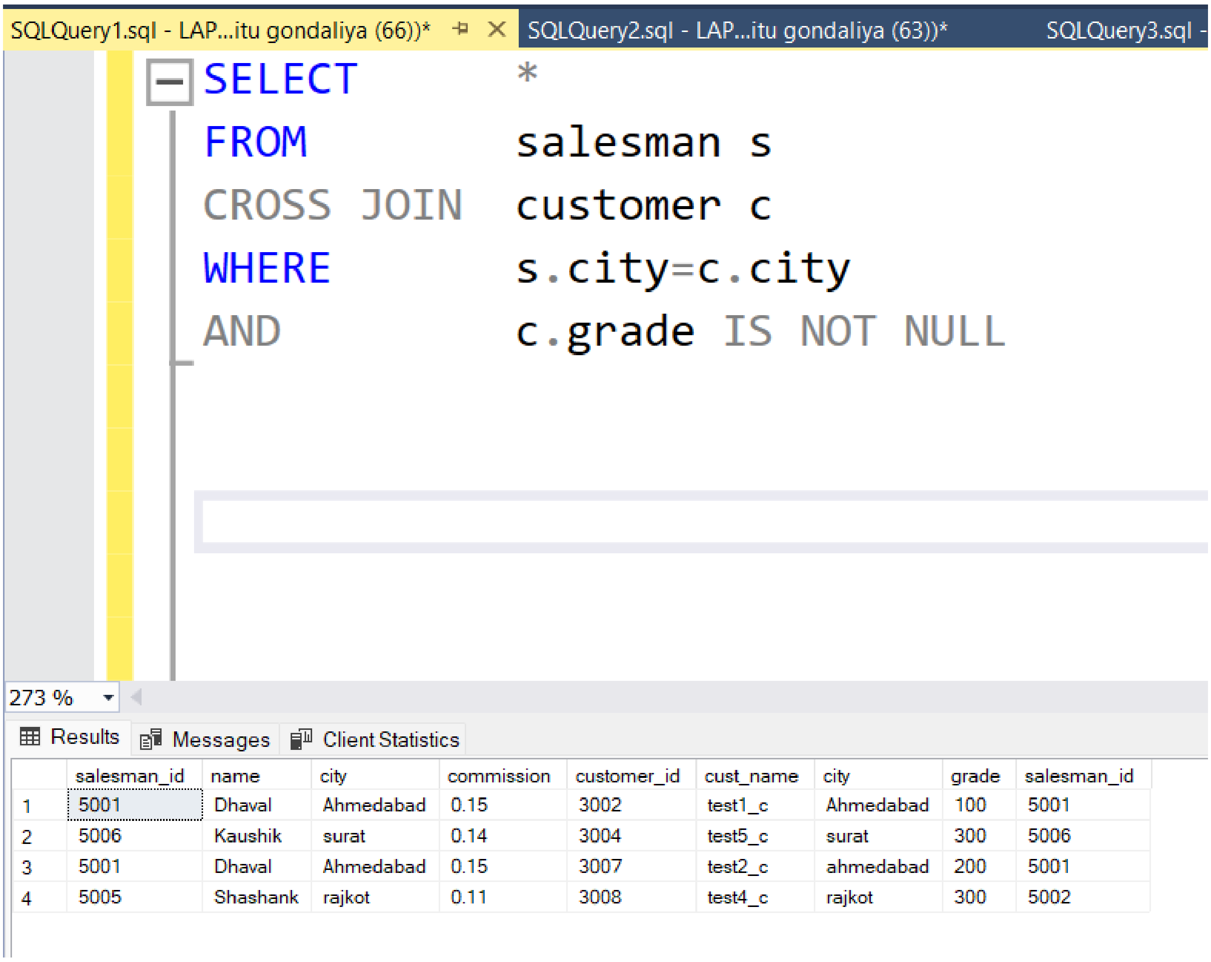
```
SELECT          *
FROM            salesman s
CROSS JOIN      customer c
WHERE           s.city=c.city
```

	salesman_id	name	city	commission	customer_id	cust_name	city	grade	salesman_id
1	5005	Shashank	rajkot	0.11	3001	test8_c	rajkot	NULL	5005
2	5001	Dhaval	Ahmedabad	0.15	3002	test1_c	Ahmedabad	100	5001
3	5006	Kaushik	surat	0.14	3004	test5_c	surat	300	5006
4	5001	Dhaval	Ahmedabad	0.15	3007	test2_c	ahmedabad	200	5001
5	5005	Shashank	rajkot	0.11	3008	test4_c	rajkot	300	5002

QUERY 19 :

Write a SQL statement to create a Cartesian product between salesperson and customer, i.e. each salesperson will appear for every customer and vice versa for those salesmen who belong to a city and customers who require a grade

```
SELECT     *
FROM       salesman s
CROSS JOIN  customer c
WHERE      s.city=c.city
AND        c.grade IS NOT NULL
```


SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
SQLQuery3.sql -
273 %
Results
Messages
Client Statistics

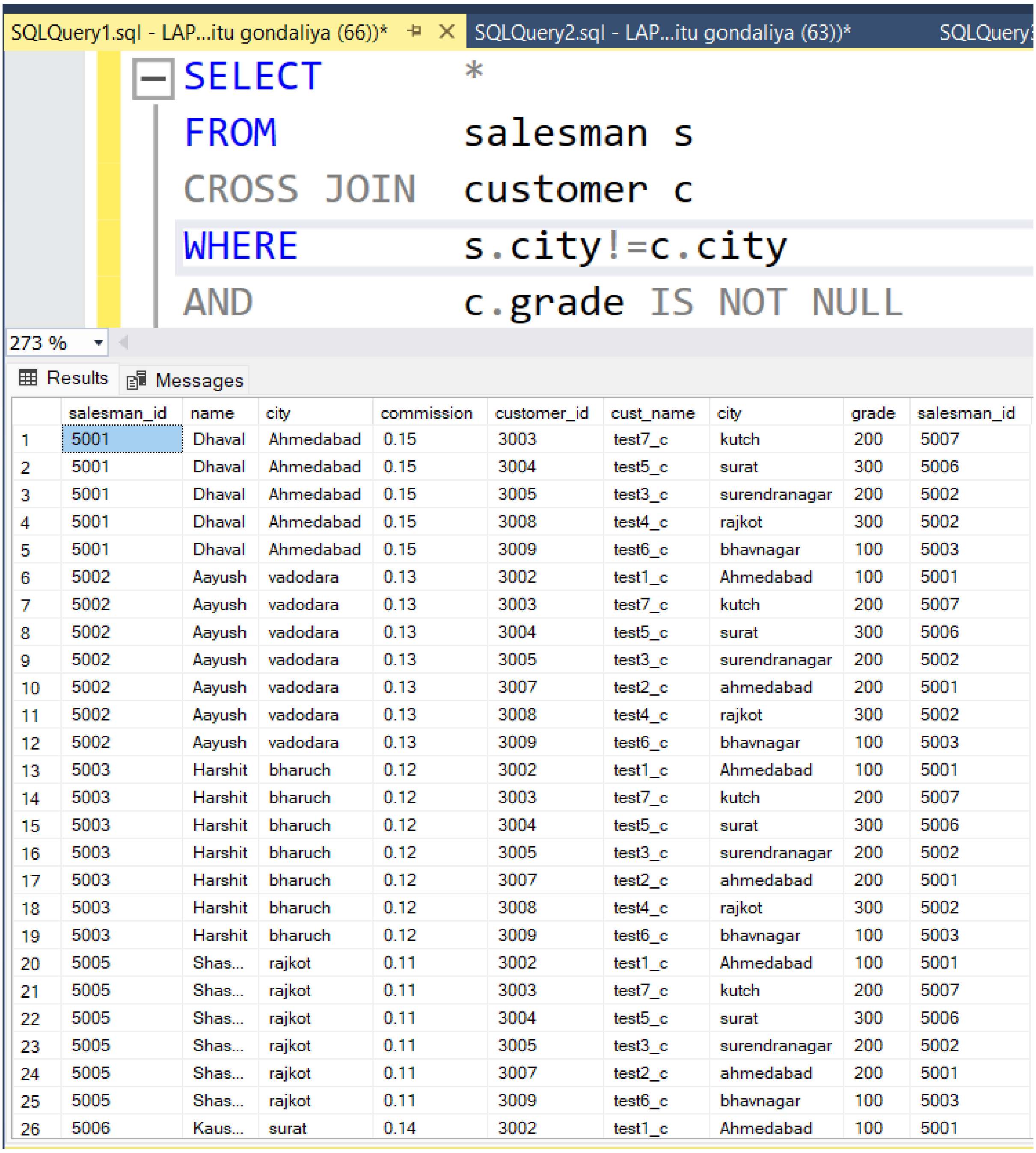
```
SELECT         *
FROM           salesman s
CROSS JOIN     customer c
WHERE          s.city=c.city
AND            c.grade IS NOT NULL
```

	salesman_id	name	city	commission	customer_id	cust_name	city	grade	salesman_id
1	5001	Dhaval	Ahmedabad	0.15	3002	test1_c	Ahmedabad	100	5001
2	5006	Kaushik	surat	0.14	3004	test5_c	surat	300	5006
3	5001	Dhaval	Ahmedabad	0.15	3007	test2_c	ahmedabad	200	5001
4	5005	Shashank	rajkot	0.11	3008	test4_c	rajkot	300	5002

QUERY 20 :

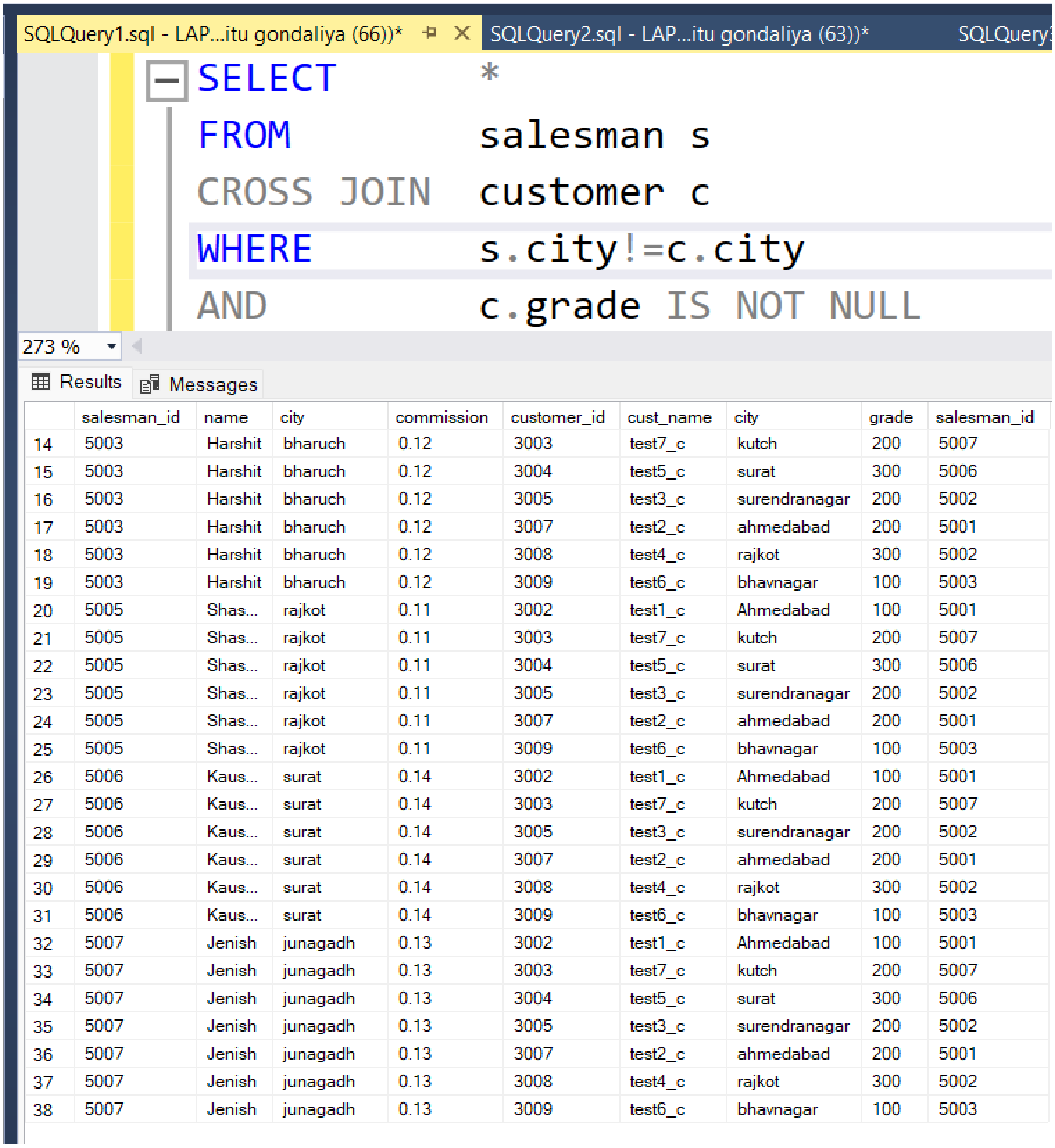
. Write a SQL statement to make a Cartesian product between salesman and customer i.e. each salesman will appear for all customers and vice versa for those salesmen who must belong to a city which is not the same as his customer and the customers should have their own grade

```
SELECT      *
FROM        salesman s
CROSS JOIN  customer c
WHERE       s.city!=c.city
AND         c.grade IS NOT NULL
```


SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
SQLQuery
273 %
Results
Messages

```
SELECT      *
FROM        salesman s
CROSS JOIN  customer c
WHERE       s.city!=c.city
AND         c.grade IS NOT NULL
```

	salesman_id	name	city	commission	customer_id	cust_name	city	grade	salesman_id
1	5001	Dhaval	Ahmedabad	0.15	3003	test7_c	kutch	200	5007
2	5001	Dhaval	Ahmedabad	0.15	3004	test5_c	surat	300	5006
3	5001	Dhaval	Ahmedabad	0.15	3005	test3_c	surendranagar	200	5002
4	5001	Dhaval	Ahmedabad	0.15	3008	test4_c	rajkot	300	5002
5	5001	Dhaval	Ahmedabad	0.15	3009	test6_c	bhavnagar	100	5003
6	5002	Aayush	vadodara	0.13	3002	test1_c	Ahmedabad	100	5001
7	5002	Aayush	vadodara	0.13	3003	test7_c	kutch	200	5007
8	5002	Aayush	vadodara	0.13	3004	test5_c	surat	300	5006
9	5002	Aayush	vadodara	0.13	3005	test3_c	surendranagar	200	5002
10	5002	Aayush	vadodara	0.13	3007	test2_c	ahmedabad	200	5001
11	5002	Aayush	vadodara	0.13	3008	test4_c	rajkot	300	5002
12	5002	Aayush	vadodara	0.13	3009	test6_c	bhavnagar	100	5003
13	5003	Harshit	bharuch	0.12	3002	test1_c	Ahmedabad	100	5001
14	5003	Harshit	bharuch	0.12	3003	test7_c	kutch	200	5007
15	5003	Harshit	bharuch	0.12	3004	test5_c	surat	300	5006
16	5003	Harshit	bharuch	0.12	3005	test3_c	surendranagar	200	5002
17	5003	Harshit	bharuch	0.12	3007	test2_c	ahmedabad	200	5001
18	5003	Harshit	bharuch	0.12	3008	test4_c	rajkot	300	5002
19	5003	Harshit	bharuch	0.12	3009	test6_c	bhavnagar	100	5003
20	5005	Shas...	rajkot	0.11	3002	test1_c	Ahmedabad	100	5001
21	5005	Shas...	rajkot	0.11	3003	test7_c	kutch	200	5007
22	5005	Shas...	rajkot	0.11	3004	test5_c	surat	300	5006
23	5005	Shas...	rajkot	0.11	3005	test3_c	surendranagar	200	5002
24	5005	Shas...	rajkot	0.11	3007	test2_c	ahmedabad	200	5001
25	5005	Shas...	rajkot	0.11	3009	test6_c	bhavnagar	100	5003
26	5006	Kaus...	surat	0.14	3002	test1_c	Ahmedabad	100	5001


SQLQuery1.sql - LAP...itu gondaliya (66))*
SQLQuery2.sql - LAP...itu gondaliya (63))*
SQLQuery3
273 %
Results
Messages

```
SELECT      *
FROM        salesman s
CROSS JOIN  customer c
WHERE       s.city!=c.city
AND         c.grade IS NOT NULL
```

	salesman_id	name	city	commission	customer_id	cust_name	city	grade	salesman_id
14	5003	Harshit	bharuch	0.12	3003	test7_c	kutch	200	5007
15	5003	Harshit	bharuch	0.12	3004	test5_c	surat	300	5006
16	5003	Harshit	bharuch	0.12	3005	test3_c	surendranagar	200	5002
17	5003	Harshit	bharuch	0.12	3007	test2_c	ahmedabad	200	5001
18	5003	Harshit	bharuch	0.12	3008	test4_c	rajkot	300	5002
19	5003	Harshit	bharuch	0.12	3009	test6_c	bhavnagar	100	5003
20	5005	Shas...	rajkot	0.11	3002	test1_c	Ahmedabad	100	5001
21	5005	Shas...	rajkot	0.11	3003	test7_c	kutch	200	5007
22	5005	Shas...	rajkot	0.11	3004	test5_c	surat	300	5006
23	5005	Shas...	rajkot	0.11	3005	test3_c	surendranagar	200	5002
24	5005	Shas...	rajkot	0.11	3007	test2_c	ahmedabad	200	5001
25	5005	Shas...	rajkot	0.11	3009	test6_c	bhavnagar	100	5003
26	5006	Kaus...	surat	0.14	3002	test1_c	Ahmedabad	100	5001
27	5006	Kaus...	surat	0.14	3003	test7_c	kutch	200	5007
28	5006	Kaus...	surat	0.14	3005	test3_c	surendranagar	200	5002
29	5006	Kaus...	surat	0.14	3007	test2_c	ahmedabad	200	5001
30	5006	Kaus...	surat	0.14	3008	test4_c	rajkot	300	5002
31	5006	Kaus...	surat	0.14	3009	test6_c	bhavnagar	100	5003
32	5007	Jenish	junagadh	0.13	3002	test1_c	Ahmedabad	100	5001
33	5007	Jenish	junagadh	0.13	3003	test7_c	kutch	200	5007
34	5007	Jenish	junagadh	0.13	3004	test5_c	surat	300	5006
35	5007	Jenish	junagadh	0.13	3005	test3_c	surendranagar	200	5002
36	5007	Jenish	junagadh	0.13	3007	test2_c	ahmedabad	200	5001
37	5007	Jenish	junagadh	0.13	3008	test4_c	rajkot	300	5002
38	5007	Jenish	junagadh	0.13	3009	test6_c	bhavnagar	100	5003